SOUTH CAROLINA HAZARDOUS WASTE MANAGEMENT REGULATIONS

June 27, 2003



Promulgated Pursuant to Sections 48-1-10 et seq. and 44-56-30 of the 1976 South Carolina Code of Laws

R. 61-79.261
Previously Amended June 28, 2002
(federal compliance)

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Note to Users

This amendment to R.61-79 is effective June 27, 2003, superseding a June 28, 2002, amendment.

The federal equivalent to R. 61-79 is amended throughout the year. The State is required to adopt certain federal amendments to maintain authorization by the United States Environmental Protection Agency for the State Hazardous Waste Management Program.

This State amendment reflects federal amendments published in the Federal Register prior to June 30, 2002. Recent amendments include: a clarifying revision to the Mixture and Derived-From Rules; new listings for three inorganic chemical manufacturing wastes including additional toxic constituents and treatment standards for the wastes; amendments to the Corrective Action Management Unit rule to facilitate cleanup; and deletion of regulatory language vacated by two federal court actions for some mineral processing secondary materials and the application of the Toxicity Characteristic Leaching Procedure to manufactured gas plant wastes. In addition, the Bureau will make amendments to the Hazardous Air Pollutant Standards for Combustors.

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261 - IDENTIFICATION AND LISTING OF **HAZARDOUS WASTE**

Subpart A - General

261.1 Purpose and Scope(a) This part identifies those solid wastes which are subject to regulation as hazardous wastes under Regulations R.61-79.124, .262 through .266, .268, .270, and 40 CFR 271, and which are subject to the notification requirements of the South Carolina

Hazardous Waste Management Act 44-56-120 and section 3010 of RCRA. In this part: (11/90; 12/92)

- (1) Subpart A defines the terms "solid waste" and "hazardous waste," identifies those wastes which are excluded from regulation under R.61-79.262 through 266, 268, and R.61-270, and establishes special management requirements for hazardous waste produced by conditionally exempt small quantity generators and hazardous waste which is recycled.
- (2) Subpart B sets forth the criteria used by the Department to identify characteristics of hazardous waste and to list particular hazardous wastes.
- (3) Subpart C identifies characteristics of hazardous waste.
 - (4) Subpart D lists particular hazardous wastes.
- (b) (1) The definition of solid waste contained in this part applies only to wastes that also are hazardous for purposes of the regulations implementing the South Carolina Hazardous Waste Management Act 44-56-10 et seq and Subtitle C of RCRA. For example, it does not apply to materials (such as nonhazardous scrap, paper, textiles, or rubber) that are not otherwise hazardous wastes and that are recycled (12/92; 12/93).
- (2) This part identifies only some of the materials which are solid wastes and hazardous wastes under SCHWMA 44-56-10 et seq. and sections 3007, 3013, and 7003 of RCRA. A material which is not defined as a solid waste in this part, or is not a hazardous waste identified or listed in this part, is still a solid waste and a hazardous waste for purposes of these sections if:
- (i) In the case of SCHWMA 44-56-90 and sections 3007 and 3013 of RCRA, the Department has reason to believe that the material may be a solid waste within the meaning of section 44-56-20(6) of the S.C. Code of Laws of 1976, as amended or a solid waste within the meaning of section 1004(27) of RCRA and a hazardous waste within the meaning of section 1004(5) of RCRA; or (11/90, 11/99)
- (ii) In the case of SCHWMA 44-56-50 or RCRA section 7003, the statutory elements are established.
 - (c) For the purposes of sections 261.2 and 261.6:
- (1) A "spent material" is any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing;
- (2) "Sludge" has the same meaning used in 260.10;
- (3) A "by-product" is a material that is not one of the primary products of a production process and is not solely or separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a co-product that is produced for the general

public's use and is ordinarily used in the form it is produced by the process.

- (4) A material is "reclaimed" if it is processed to recover a usable product, or if it is regenerated. Examples are recovery of lead values from spent batteries and regeneration of spent solvents.
 - (5) A material is "used or reused" if it is either:
- (i) Employed as an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or
- (ii) Employed in a particular function or application as an effective substitute for a commercial product (for example, spent pickle liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment).
- 6) "Scrap metal" is bits and pieces of metal parts (e.g., bars, turnings, rods, sheets, wire) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled.
- (7) A material is "recycled" if it is used, reused, or reclaimed.
- (8) A material is "accumulated speculatively" if it is accumulated before being recycled. A material is not accumulated speculatively, however, if the person accumulating it can show that the material is potentially recyclable and has a feasible means of being recycled; and that - during the calendar year (commencing on January 1) - the amount of material that is recycled, or transferred to a different site for recycling, equals at least 75 percent by weight or volume of the amount of that material accumulated at the beginning of the period. In calculating the percentage of turnover, the 75 percent requirement is to be applied to each material of the same type (e.g., slags from a single smelting process) that is recycled in the same way (i.e., from which the same material is recovered or that is used in the same way). Materials accumulating in units that would be exempt from regulation under section 261.4(c) are not to be included in making the calculation. (Materials that are already defined as solid wastes also are not to be included in making the calculation.) Materials are no longer in this category once they are removed from accumulation for recycling, however.
- (9) "Excluded scrap metal" is processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal. (9/98)
- (10) "Processed scrap metal" is scrap metal which has been manually or physically altered to

either separate it into distinct materials to enhance economic value or to improve the handling of materials. Processed scrap metal includes, but is not limited to scrap metal which has been baled, shredded, sheared, chopped, crushed, flattened, cut, melted, or separated by metal type (i.e., sorted), and, fines, drosses and related materials which have been agglomerated. (Note: shredded circuit boards being sent for recycling are not considered processed scrap metal. They are covered under the exclusion from the definition of solid waste for shredded circuit boards being recycled (261.4(a)(13)). (9/98)

- (11) "Home scrap metal" is scrap metal as generated by steel mills, foundries, and refineries such as turnings, cuttings, punchings, and borings. (9/98)
- (2) "Prompt scrap metal" is scrap metal as generated by the metal working/fabrication industries and includes such scrap metal as turnings, cuttings, punchings, and borings. Prompt scrap is also known as industrial or new scrap metal. (9/98) (*d*) Used oil is subject to the applicable requirements of 266 only. (6/89; 12/92)

261.2 Definition of solid waste

- (a) (1) A solid waste is any discarded material that is not excluded by section 261.4(a) or that is not excluded by variance granted under 260.30 and 260.31.
- (2) A discarded material is any material which is (12/92):
- (i) Abandoned, as explained in paragraph (b) of this section; or
- (ii) Recycled, as explained in paragraph (c) of this section; or
- (iii) Considered inherently waste-like, as explained in paragraph (d) of this section; or (9/98)
- (iv) A "military munition" identified as a solid waste in 266.202. (9/98)
- (b) Materials are solid waste if they are abandoned by being:
 - (1) Disposed of; or

- (2) Burned or incinerated; or
- (3) Accumulated, stored, or treated (but not recycled) before or in lieu of being abandoned by being disposed of, burned, or incinerated.
- (c) Materials are solid wastes if they are recycled or accumulated, stored, or treated before recycling as specified in paragraphs (c)(1) through (4) of this section.
 - (1) Used in a manner constituting disposal.
- (i) Materials noted with an "x" in Column 1 of Table 1 are solid wastes when they are:
- (A) Applied to or placed on the land in a manner that constitutes disposal; or
- (B) Used to produce products that are applied to or placed on the land or are otherwise contained in products that are applied to or placed on the land (in which cases the product itself remains a solid waste).
- (ii) However, commercial chemical products listed in section 261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use.
 - (2) Burning for energy recovery.
- (i) Materials noted with an "x" in column 2 of Table 1 are solid wastes when they are:
 - (A)Burned to recover energy;
- (B) Used to produce a fuel or are otherwise contained in fuels (in which cases the fuel itself remains a solid waste).
- (ii) However, commercial chemical products listed in section 261.33 are not solid wastes if they are themselves fuels.
- (3) Reclaimed. Materials noted with an "x" in column 3 of Table 1 are solid wastes when reclaimed. Materials noted with a "---" in column 3 of Table 1 are not solid wastes when reclaimed. (11/99, 8/00, 6/03).
- (4) Accumulated speculatively. Materials noted with an "x" in column 4 of Table 1 are solid wastes when accumulated speculatively.

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261.2 Table 1 Summary of definition			T	
[Note: The terms "spent materials,"	Use	Energy	Reclamation	Speculative
"sludges," "by-products," and "scrap metal"	Constituting	Recovery/	261.2(c)(3) (8/00)(except as provided	Accumulation
are defined in 261.1.] (11/99)	Disposal	Fuel	in 261.4(a)(17) for mineral processing	261.2(c)(4)
	261.2(c)(1)	261.2(c)(2)	secondary metals)	
	(1)	(2)	(3)	(4)
Spent Materials	(x)	(x)	(x)	(x)
Sludges (listed in Section 261.31 or .32)	(x)	(x)	(x)	(x)
Sludges exhibiting a characteristic of	(x)	(x)		(x)
hazardous waste				
By-products (listed in Section 261.31 or	(x)	(x)	(x)	(x)
.32)				
By-products exhibiting a characteristic of	(x)	(x)		(x)
hazardous waste				
Commercial chemical products listed in	(x)	(x)		
Section 261.33				
Scrap metal other than excluded scrap metal (see 261.1(c)(9))	(x)	(x)	(x)	(x)

- (d) Inherently waste-like materials. The following materials are solid wastes when they are recycled in any manner:
- (1) Hazardous Waste Nos. F020, F021 (unless used as an ingredient to make a product at the site of generation), F022, F023, F026, and F028.
- (2) Secondary materials fed to a halogen acid furnace that exhibit a characteristic of a hazardous waste or are listed as a hazardous waste as defined in subparts C or D of this part, except for brominated material that meets the following criteria: (12/92, 12/93)
- (i) The material must contain a bromine concentration of at least 45%; and (12/93)
- (ii) The material must contain less than a total of 1% of toxic organic compounds listed in appendix VIII; and (12/93)
- (iii) The material is processed continually on-site in the halogen acid furnace via direct conveyance (hard piping). (12/93)
- (3) The Department will use the following criteria to add wastes to that list (12/92):
- (i) (A) The materials are ordinarily disposed of, burned, or incinerated; or
- (B) The materials contain toxic constituents listed in Appendix VIII of 261 and these constituents are not ordinarily found in raw materials or products for which the materials substitute (or are found in raw materials or products in smaller concentrations) and are not used or reused during the recycling process; and
- (ii) The material may pose a substantial hazard to human health and the environment when recycled.
- (e) Materials that are not solid waste when recycled.
- (1) Materials are not solid wastes when they can be shown to be recycled by being:
- (i) Used or reused as ingredients in an industrial process to make a product, provided the materials are not being reclaimed or land disposed; or (5/96)
- (ii) Used or reused as effective substitutes for commercial products; or
- (iii) Returned to the original process from which they are generated, without first being reclaimed or land disposed. The material must be returned as a substitute for feedstock materials. In cases where the original process to which the material is returned is a secondary process, the materials must be managed such that there is no placement on the land. In cases where the materials are generated and reclaimed within the primary mineral processing industry, the conditions of the exclusion found at 261.4(a)(17) apply rather than this paragraph. (5/96, 11/99; 8/00)
- (2) The following materials are solid wastes, even if the recycling involves use, reuse, or return to

- the original process (described in paragraphs (e)(1)(i) through (iii) of this section):
- (i) Materials used in a manner constituting disposal, or used to produce products that are applied to the land; or
- (ii) Materials burned for energy recovery, used to produce a fuel, or contained in fuels; or
 - (iii) Materials accumulated speculatively; or
- (iv) Materials listed in paragraphs (d)(1) and (d)(2) of this section. (12/93, 11/99)
- (f) Documentation of claims that materials are not solid wastes or are conditionally exempt from regulation. Respondents in actions to enforce regulations implementing the SC Hazardous Waste Management Act Sections 44-56-10 et seq. and Subtitle C of RCRA who raise a claim that a certain material is not a solid waste, or is conditionally exempt from regulation, must demonstrate that there is a known market or disposition for the material, and that they meet the terms of the exclusion or exemption. In doing so, they must provide appropriate documentation (such as contracts showing that a second person uses the material as an ingredient in a production process) to demonstrate that the material is not a waste, or is exempt from regulation. In addition, owners or operators of facilities claiming that they actually are recycling materials must show that they have the necessary equipment to do so (12/93, 11/99).

261.3 Definition of hazardous waste

- (a) A solid waste, as defined in 261.2, is a hazardous waste if: (11/99)
- (1) It is not excluded from regulation as a hazardous waste under 261.4(b); and (11/99)
 - (2) It meets any of the following criteria:
- (i) It exhibits any of the characteristics of hazardous waste identified in subpart C of this part. However, any mixture of a waste from the extraction, beneficiation, and processing of ores and minerals excluded under 261.4(b)(7) and any other solid waste exhibiting a characteristic of hazardous waste under subpart C is a hazardous waste only if it exhibits a characteristic that would not have been exhibited by the excluded waste alone if such mixture had not occurred, or if it continues to exhibit any of the characteristics exhibited by the non-excluded wastes prior to mixture. Further, for the purposes of applying the Toxicity Characteristic to such mixtures, the mixture is also a hazardous waste if it exceeds the maximum concentration for any contaminant listed in table I to 261.24 that would not have been exceeded by the excluded waste alone if the mixture had not occurred, or if it continues to exceed the maximum concentration for any contaminant exceeded by the nonexempt waste prior to mixture. (11/90, 12/93, 11/99)

- (ii) It is listed in subpart D and has not been excluded from the lists in subpart D of this part under 260.20 and 260.22.
 - (iii) [Reserved 6/02]
- It is a mixture of solid waste and (iv) one or more hazardous wastes listed in subpart D of this part and has not been excluded from paragraph (a)(2) of this paragraph under 260.20 and 260.22, paragraph (g) of this section, or paragraph (h) of this section; however, the following mixtures of solid wastes and hazardous wastes listed in subpart D of this part are not hazardous wastes (except by application of paragraph (a)(2) (i) or (ii) of this section) if the generator can demonstrate that the mixture consists of wastewater the discharge of which is subject to regulation under the S. C. Pollution Control Act Section 48-1-10 et seq., of the S. C. Code of Laws of 1976, as amended and under either section 402 or section 307(b) of the Clean Water Act (including wastewater at facilities which have eliminated the discharge of wastewater) and: (11/90; 12/93, 6/02)
- (A) One or more of the following solvents listed in section 261.31 carbon tetrachloride, tetrachloroethylene, trichloroethylene Provided, That the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pretreatment system does not exceed 1 part per million; or (5/96)
- (B) One or more of the following spent solvents listed in Section 261.31 methylene chloride, 1,1,1-trichloroethane, chlorobenzene, odichlorobenzene, cresols, cresylic acid, nitrobenzene, toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, spent chlorofluorocarbon solvents provided that the maximum total weekly usage of these solvents (other than the amounts that can be demonstrated not to be discharged to wastewater) divided by the average weekly flow of wastewater into the headworks of the facility's wastewater treatment or pre-treatment system does not exceed 25 parts per million; or
- (C) One of the following wastes listed in 261.32, provided that the wastes are discharged to the refinery oil recovery sewer before primary oil/water/solids separation heat exchanger bundle cleaning sludge from the petroleum refining industry (EPA Hazardous Waste No. K050), crude oil storage tank sediment from petroleum refining operations (EPA Hazardous Waste No. K169), clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations (EPA Hazardous Waste No. K170), spent hydrotreating catalyst (EPA

Hazardous Waste No. K171), and spent hydrorefining catalyst (EPA Hazardous Waste No. K172); or (8/00)

(D) A discarded commercial chemical product, or chemical intermediate listed in section 261.33, arising from deminimis losses of these materials from manufacturing operations in which these materials are used as raw materials or are produced in the manufacturing process. For purposes of this paragraph (a)(2)(iv)(D), "deminimis" losses include those from normal material handling operations (e.g., spills from the unloading or transfer of materials from bins or other containers, leaks from pipes, valves or other devices used to transfer materials); minor leaks of process equipment, storage tanks or containers; leaks from well maintained pump packings and seals; sample purgings; relief device discharges; discharges from safety showers and rinsing and cleaning of personal safety equipment; and rinsate from empty containers or from containers that are rendered empty by that rinsing; or (12/93)

(E) Wastewater resulting from laboratory operations containing toxic (T) wastes listed in subpart D of this part, Provided, That the annualized average flow of laboratory wastewater does not exceed one percent of total wastewater flow into the headworks of the facility's wastewater treatment or pre-treatment system, or provided the wastes, combined annualized average concentration does not exceed one part per million in the headworks of the facility's wastewater treatment or pre-treatment facility. Toxic (T) wastes used in laboratories that are demonstrated not to be discharged to wastewater are not to be included in this calculation; or (5/96)

(F) One or more of the following wastes listed in 261.32-wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157)-Provided that the maximum weekly usage of formaldehyde, methyl chloride, methylene chloride, and triethylamine (including all amounts that can not be demonstrated to be reacted in the process, destroyed through treatment, or is recovered, i.e., what is discharged or volatilized) divided by the average weekly flow of process wastewater prior to any dilutions into the headworks of the facility's wastewater treatment system does not exceed a total of 5 parts per million by weight; or (5/96)

(G) Wastewaters derived from the treatment of one or more of the following wastes listed in 261.32-organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156).-Provided, that the maximum concentration of formaldehyde, methyl chloride, methylene chloride, and triethylamine prior to any dilutions into the headworks of the facility's wastewater treatment

system does not exceed a total of 5 milligrams per liter. (5/96)

- (v) Rebuttable presumption for used oil. Used oil containing more than 1000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in subpart D of part 261 of this chapter. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by using an analytical method from SW-846, Third Edition, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in appendix VIII of part 261 of this chapter). EPA Publication SW-846, Third Edition, is available for the cost of \$110.00 from the Government Printing Office, Superintendent of Documents, PO Box 371954, Pittsburgh, PA 15250-7954. 202-783-3238 (document number 955-001-00000-1), (11/99)
- (A) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed. (11/99)
- (B) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units. (11/99)
- (b) A solid waste which is not excluded from regulation under paragraph (a)(1) of this section becomes a hazardous waste when any of the following events occur:
- (1) In the case of a waste listed in subpart D of this part, when the waste first meets the listing description set forth in subpart D of this part.
- (2) In the case of a mixture of solid waste and one or more listed hazardous wastes, when a hazardous waste listed in subpart D is first added to the solid waste. (8/00)
- (3) In the case of any other waste (including a waste mixture), when the waste exhibits any of the characteristics identified in subpart C of this part.
- (c) Unless and until it meets the criteria of paragraph (d) of this part:
- (1) A hazardous waste will remain a hazardous waste.
- (2) (i) Except as otherwise provided in paragraph (c)(2)(ii), (g) or (h), any solid waste generated from the treatment, storage, or disposal of a hazardous waste, including any sludge, spill residue, ash emission control dust, or leachate (but not

- including precipitation run-off) is a hazardous waste. (However, materials that are reclaimed from solid wastes and that are used beneficially are not solid wastes and hence are not hazardous wastes under this provision unless the reclaimed material is burned for energy recovery or used in a manner constituting disposal.) (6/02, 6/03)
- (ii) The following solid wastes are not hazardous even though they are generated from the treatment, storage, or disposal of a hazardous waste, unless they exhibit one or more of the characteristics of hazardous waste:
- (A) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (SIC Codes 331 and 332).
- (B) Waste from burning any of the materials exempted from regulation by section 261.6(a)(3)(iii) and (iv) (12/92; 5/96; 8/00).
- (C)(1) Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061, K062, or F006 waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces (as defined in paragraphs (6), (7), and (13) of the definition for Industrial furnace" in 260.10), that are disposed in subtitle D units, provided that these residues meet the generic exclusion levels identified in the tables in this paragraph for all constituents, and exhibit no characteristics of hazardous waste. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and/or when the process or operation generating the waste changes. Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements. (12/92; 12/93)

Constituent	Maximum for any single
	composite sample (mg/l)
Generic exclusion levels	for K061 and K062 nonwastewater
HTMR residues	
Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70.

Generic exclusion levels for F006 nonwastewater HTMR		
residues		
Antimony	0.10	
Arsenic	0.50	
Barium	7.6	
Beryllium	0.010	
Cadmium	0.050	
Chromium (total)	0.33	
Cyanide (total) (mg/kg)	1.8	
Lead	0.15	
Mercury	0.009	
Nickel	1.0	
Selenium	0.16	
Silver	0.30	
Thallium	0.020	
Zinc	70.0	

(2) A one-time notification and certification must be placed in the facility's files and sent to the Department for K061, K062, or F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to subtitle D units. The notification and certification that is placed in the generators or treaters files must be updated if the process or operation generating the waste changes and/or if the subtitle D unit receiving the waste changes. However, the generator or treater need only notify the Department on an annual basis if such changes occur. Such notification and certification should be sent to the Department by the end of the calendar year, but no later than December 31. The notification must include the following information: The name and address of the subtitle D unit receiving the waste shipments; the EPA Hazardous Waste Number(s) and treatability group(s) at the initial point of generation; and, the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows: "I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of hazardous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment." (12/93; 5/96)

(D)Biological treatment sludge from the treatment of one of the following wastes listed in 261.32 - organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamovl oximes (EPA Hazardous Waste No. K157).(10/01)

(E) Catalyst inert support media separated from one of the following wastes listed in 261.32 Spent hydrotreating catalyst (EPA Hazardous Waste No. K171), and Spent hydrorefining catalyst (EPA Hazardous Waste No. K172). (8/00)

- (d) Any solid waste described in paragraph (c) of
- this section is not a hazardous waste if it meets the following criteria:
- (1) In the case of any solid waste, it does not exhibit any of the characteristics of hazardous waste identified in subpart C of this part. (However, wastes that exhibit a characteristic at the point of generation may still be subject to the requirements of part 268, even if they no longer exhibit a characteristic at the point of land disposal) (12/92).
- (2) In the case of a waste which is a listed waste under subpart D of this part, contains a waste listed under subpart D of this part or is derived from a waste listed in subpart D of this part, it also has been excluded from paragraph (c) under 260.20 and 260.22.
- (e) For the purposes of this regulation the wastes listed in Appendix XI will be considered hazardous.
- (f) Notwithstanding paragraphs (a) through (d) of this section and provided the debris as defined in part 268 does not exhibit a characteristic identified at subpart C of this part, the following materials are not subject to regulation under 260, 261 to 266, 268, or 270: (12/93)
- (1) Hazardous debris as defined in part 268 that has been treated using one of the required extraction or destruction technologies specified in Table 1 of 268.45; persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or (12/93)
- (2) Debris as defined in part 268 that the Department, considering the extent of contamination, has determined is no longer contaminated with hazardous waste. (12/93)
- (g) (1) A hazardous waste that is listed in subpart D of this part solely because it exhibits one or more characteristics of ignitability as defined under 261.21, corrosivity as defined under 261.22, or reactivity as defined under 261.23 is not a hazardous waste, if the waste no longer exhibits any characteristic of hazardous waste identified in subpart C of this part. (6/02)
- (2) The exclusion described in paragraph (g)(1) of this section also pertains to:
- (i) Any mixture of a solid waste and a hazardous waste listed in subpart D of this part solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (a)(2)(iv) of this section; and
- (ii) Any solid waste generated from treating, storing, or disposing of a hazardous waste listed in subpart D of this part solely because it exhibits the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (c)(2)(i) of this section.
- (3) Wastes excluded under this section are subject to part 268 of this chapter (as applicable), even

if they no longer exhibit a characteristic at the point of land disposal.

- (4) Any mixture of a solid waste excluded from regulation under 261.4(b)(7) and a hazardous waste listed in Subpart D solely because it exhibits one or more of the characteristics of ignitability, corrosivity, or reactivity as regulated under paragraph (a)(2)(iv) is not a hazardous waste, if the mixture no longer exhibits any characteristic of hazardous waste identified in Subpart C for which the hazardous waste listed in Subpart D was listed. (6/03)
- (h) (1)Hazardous waste containing radioactive waste is no longer a hazardous waste when it meets the eligibility criteria and conditions of 266, Subpart N ("eligible radioactive mixed waste"). (6/02)
- (2) The exemption described in paragraph (h)(1) of this section also pertains to:
- (i) Any mixture of a solid waste and an eligible radioactive mixed waste; and
- (ii) Any solid waste generated from treating, storing, or disposing of an eligible radioactive mixed waste.
- (3) Waste exempted under this section must meet the eligibility criteria and specified conditions in 266.225 and 266.230 (for storage and treatment). Waste that fails to satisfy these eligibility criteria and conditions is regulated as hazardous waste.

261.4 Exclusions

- (a) Materials which are not solid wastes. The following materials are not solid wastes for the purpose of this part:
 - (1) (i) Domestic sewage; and
- (ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works for treatment. "Domestic sewage" means untreated sanitary wastes that pass through a sewer system.
- (2) Industrial wastewater discharges that are point source discharges subject to regulation under Section 48-1-10 et seq., of the S. C. Code of Laws of 1976, and section 402 of the Clean Water Act, as amended. (12/93)

[Comment: This exclusion applies only to the actual point source discharge. It does not exclude industrial wastewaters while they are being collected, stored or treated before discharge, nor does it exclude sludges that are generated by industrial wastewater treatment] (12/92).

- (3) Irrigation return flows.
- (4) Source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.
- (5) Materials subjected to in-situ mining techniques which are not removed from the ground as part of the extraction process.

- (6) Pulping liquors (i.e., black liquor) that are reclaimed in a pulping liquor recovery furnace and then reused in the pulping process, unless it is accumulated speculatively as defined in Section 261.1(c).
- (7) Spent sulfuric acid used to produce virgin sulfuric acid, unless it is accumulated speculatively as defined in Section 261.1(c).
- (8) Secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:
- (i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;
- (ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);
- (iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed; and
- (iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal.
 - (9) (12/92)
- (i) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and
- (ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.
- (iii) Prior to reuse, the wood preserving wastewaters and spent wood preserving solutions described in paragraphs (a)(9)(i) and (a)(9)(ii) of this section, so long as they meet all of the following conditions: (11/99)
- (A)The wood preserving wastewaters and spent wood preserving solutions are reused on-site at water borne plants in the production process for their original intended purpose; (11/99)
- (B) Prior to reuse, the wastewaters and spent wood preserving solutions are managed to prevent release to either land or groundwater or both; (11/99)
- (C) Any unit used to manage wastewaters and/or spent wood preserving solutions prior to reuse can be visually or otherwise determined to prevent such releases; (11/99)
- (D) Any drip pad used to manage the wastewaters and/or spent wood preserving solutions prior to reuse complies with the standards in part 265, subpart W of this chapter, regardless of whether the plant generates a total of less than 100 kg/month of hazardous waste; and (11/99)
- (E) Prior to operating pursuant to this exclusion, the plant owner or operator submits to the

appropriate Department a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language: "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant must maintain a copy of that document in its on-site records for a period of no less than 3 years from the date specified in the notice. The exclusion applies only so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the appropriate Department for reinstatement. Department may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that violations are not likely to recur. (11/99)

- (10) EPA Hazardous Waste Nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke byproducts processes that are hazardous only because they exhibit the Toxicity Characteristic (TC) specified in section 261.24 of this part when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or are mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke ovens or the tar recovery or refining processes, or mixed with coal tar. (12/93)
- (11) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery. (12/93)
- (12) (i) Oil-bearing hazardous secondary materials (i.e., sludges, byproducts, or spent materials) that are generated at a petroleum refinery (SIC code 2911) and are inserted into the petroleum refining process (SIC code 2911 - including, but not limited to, distillation, catalytic cracking, fractionation, or thermal cracking units (i.e., cokers)) unless the material is placed on the land, or speculatively accumulated before being so recycled. Materials inserted into thermal cracking units are excluded under this paragraph, provided that the coke product also does not exhibit a characteristic of hazardous waste. Oil-bearing hazardous secondary materials may be inserted into the same petroleum refinery where they are generated, or sent directly to another petroleum refinery, and still be excluded under this provision. Except as provided in paragraph (a)(12)(ii) of this section, oil-bearing hazardous secondary materials generated elsewhere in the petroleum

- industry (i.e., from sources other than petroleum refineries) are not excluded under this section. Residuals generated from processing or recycling materials excluded under this paragraph (a)(12)(i), where such materials as generated would have otherwise met a listing under subpart D of this part, are designated as F037 listed wastes when disposed of or intended for disposal. (5/96, 9/98; 8/00)
- (ii) Recovered oil that is recycled in the same manner and with the same conditions as described in paragraph (a)(12)(i) of this section. Recovered oil is oil that has been reclaimed from secondary materials (including wastewater) generated from normal petroleum industry practices, including refining, exploration and production, bulk storage, and transportation incident thereto (SIC codes 1311, 1321, 1381, 1382, 1389, 2911, 4612, 4613, 4922, 4923, 4789, 5171, and 5172.) Recovered oil does not include oil-bearing hazardous wastes listed in subpart D of this part; however, oil recovered from such wastes may be considered recovered oil. Recovered oil does not include used oil as defined in 40 CFR 279.1. (8/00)
- (13) Excluded scrap metal (processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal) being recycled. (9/98)
- (14) Shredded circuit boards being recycled provided that they are: (9/98)
- (i) Stored in containers sufficient to prevent a release to the environment prior to recovery; and
- (ii) Free of mercury switches, mercury relays and nickel cadmium batteries and lithium batteries.
- (15) Condensates derived from the overhead gases from kraft mill steam strippers that are used to comply with 40 CFR 63.446(e). The exemption applies only to combustion at the mill generating the condensates. (11/99)
- (16) Comparable fuels or comparable syngas fuels (i.e., comparable/syngas fuels) that meet the requirements of 261.38. (11/99, 8/00)
- (17) Spent materials (as defined in 261.1) (other than hazardous wastes listed in subpart D of this part) generated within the primary mineral processing industry from which minerals, acids, cyanide, water, or other values are recovered by mineral processing, or by beneficiation, provided that: (11/99; 8/00, 6/03)
- (i) The spent material is legitimately recycled to recover minerals, acids, cyanide, water or other values; (6/03)
- (ii) The spent material is not accumulated speculatively; (6/03)
- (iii) Except as provided in paragraph (a)(17)(iv) of this section, the spent material is stored in tanks, containers, or buildings meeting the following minimum integrity standards: a building

must be an engineered structure with a floor, walls, and a roof all of which are made of non-earthen materials providing structural support (except smelter buildings may have partially earthen floors provided the secondary material is stored on the non-earthen portion), and have a roof suitable for diverting rainwater away from the foundation; a tank must be free standing, not be a surface impoundment (as defined in 260.10), and be manufactured of a material suitable for containment of its contents; a container must be free standing and be manufactured of a material suitable for containment of its contents. If tanks or containers contain any particulate which may be subject to wind dispersal, the owner/operator must operate these units in a manner which controls fugitive dust. Tanks, containers, and buildings must be designed, constructed and operated to prevent significant releases to the environment of these materials. (8/00, 6/03)

- (iv) The Department may make a site-specific determination, after public review and comment, that only solid mineral processing spent material may be placed on pads rather than tanks, containers, or buildings. Solid mineral processing spent materials do not contain any free liquid. The decision-maker must affirm that pads are designed, constructed and operated to prevent significant releases of the secondary material into the environment. Pads must provide the same degree of containment afforded by the non-RCRA tanks, containers and buildings eligible for exclusion. (6/03)
- (A) The decision-maker must also consider if storage on pads poses the potential for significant releases via groundwater, surface water, and air exposure pathways. Factors to be considered for assessing the groundwater, surface water, air exposure pathways are: the volume and physical and chemical properties of the secondary material, including its potential for migration off the pad; the potential for human or environmental exposure to hazardous constituents migrating from the pad via each exposure pathway, and the possibility and extent of harm to human and environmental receptors via each exposure pathway.
- (B) Pads must meet the following minimum standards: be designed of non-earthen material that is compatible with the chemical nature of the mineral processing spent material, capable of withstanding physical stresses associated with placement and removal, have run on/runoff controls, be operated in a manner which controls fugitive dust, and have integrity assurance through inspections and maintenance programs. (6/03)
- (C) Before making a determination under this paragraph, the Department must provide notice and the opportunity for comment to all persons potentially interested in the determination. This can be

accomplished by placing notice of this action in major local newspapers, or broadcasting notice over local radio stations.

- (v) The owner or operator provides notice to the Department, providing the following information: the types of materials to be recycled; the type and location of the storage units and recycling processes; and the annual quantities expected to be placed in land-based units. This notification must be updated when there is a change in the type of materials recycled or the location of the recycling process. (8/00, 6/03)
- (vi): For purposes of 261.4(a)(7) mineral processing spent materials must be the result of mineral processing and may not include any listed hazardous wastes. Listed hazardous wastes and characteristic hazardous wastes generated by non-mineral processing industries are not eligible for the conditional exclusion from the definition of solid waste. (6/03)
- (18) Petrochemical recovered oil from an associated organic chemical manufacturing facility, where the oil is to be inserted into the petroleum refining process (SIC code 2911) along with normal petroleum refinery process streams, provided: (8/00)
- (i) The oil is hazardous only because it exhibits the characteristic of ignitability (as defined in 261.21) and/or toxicity for benzene (261.24, waste code D018); and
- (ii) The oil generated by the organic chemical manufacturing facility is not placed on the land, or speculatively accumulated before being recycled into the petroleum refining process. An "associated organic chemical manufacturing facility" is a facility where the primary SIC code is 2869, but where operations may also include SIC codes 2821, 2822, and 2865; and is physically co-located with a petroleum refinery; and where the petroleum refinery to which the oil being recycled is returned also provides hydrocarbon feedstocks to the organic chemical manufacturing facility. "Petrochemical recovered oil" is oil that has been reclaimed from secondary materials (i.e., sludges, byproducts, or spent materials, including wastewater) from normal organic chemical manufacturing operations, as well as oil recovered from organic chemical manufacturing processes.
- (19) Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid unless the material is placed on the land, or accumulated speculatively as defined in 261.1(c). (8/00)
- (b) Solid wastes which are not hazardous wastes. The following solid wastes are not hazardous wastes:
- (1) Household waste, including household waste that has been collected, transported, stored, treated, disposed, recovered (e.g., refuse-derived fuel)

or reused. "Household waste" means any material (including garbage, trash and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds and day use recreation areas). A resource recovery facility managing municipal solid waste shall not be deemed to be treating, storing, disposing of, or otherwise managing hazardous wastes for the purpose of regulation under this subtitle, if such facility (12/92; 12/93, 6/03):

- (i) Receives and burns only
- (A) Household waste (from single and multiple dwellings, hotels, motels, and other residential sources) and
- (B) Solid waste from commercial or industrial sources that does not contain hazardous waste; and
- (ii) Such facility does not accept hazardous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that hazardous wastes are not received at or burned in such facility.
- (2) Solid wastes generated by any of the following and which are returned to the soils as fertilizers:
- (i) The growing and harvesting of agricultural crops.
- (ii) The raising of animals, including animal manures.
- (3) Mining overburden returned to the mine site if such overburden is handled in compliance with all applicable provisions of the S. C. Mining Act, Section 48-20-10 et seq., S. C. Code of Laws, 1976, as amended.
- (4) Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or other fossil fuels, except as provided by 266.112 for facilities that burn or process hazardous waste (12/92).
- (5) Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas or geothermal energy.
- (6) (i) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in subpart D due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators that: (11/90)
- (A) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and

- (B) The waste is generated from an industrial process which uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and
- (C) The waste is typically and frequently managed in non-oxidizing environments.
- (ii) Specific wastes which meet the standard in paragraphs (b)(6)(i) (A), (B), and (C) (so long as they do not fail the test for the toxicity characteristic for any other constituent, and do not exhibit any other characteristic) are: (11/90; 12/93)
- (A) Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling. (11/90; 12/92)
- (B) Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; no beamhouse; through-the-blue; and shearling.
- (C) Buffing dust generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.
- (D)Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
- (E) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling. (12/92)
- (F) Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; and through-the-blue.
- (G) Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.
- (H) Wastewater treatment sludges from the production of TiO² pigment using chromiumbearing ores by the chloride process.
- (7) Solid waste from the extraction, beneficiation, and processing of ores and minerals (including coal, phosphate rock, and overburden from the mining of uranium ore), except as provided by 266.112 for facilities that burn or process hazardous waste.

- (i) For purposes of 261.4(b)(7), beneficiation of ores and minerals is restricted to the following activities: crushing; grinding; washing; dissolution; crystallization; filtration; sorting; sizing; drying; sintering; pelletizing; briquetting; calcining to remove water and/or carbon dioxide; roasting, autoclaving, and/or chlorination in preparation for leaching (except where the roasting (and/or autoclaving and/or chlorination)/leaching sequence produces a final or intermediate product that does not undergo further beneficiation or processing); gravity concentration; magnetic separation; electrostatic separation; flotation; ion exchange; solvent extraction; electrowinning; precipitation; amalgamation; and heap, dump, vat, tank, and in situ leaching.
- (ii) For the purposes of 261.4(b)(7), solid waste from the processing of ores and minerals includes only the following wastes as generated: (12/92, 11/99)
- (A) Slag from primary copper processing;
 - (B) Slag from primary lead processing;
 - (C) Red and brown muds from bauxite

refining;

- (D)Phosphogypsum from phosphoric acid production;
- (E) Slag from elemental phosphorus production;
 - (F) Gasifier ash from coal gasification;
 - (G) Process wastewater from coal

gasification;

- (H)Calcium sulfate wastewater treatment plant sludge from primary copper processing;
- (I) Slag tailings from primary copper processing;
- (J) Fluorogypsum from hydrofluoric acid production;
- (K)Process wastewater from hydrofluoric acid production;
- (L) Air pollution control dust/sludge from iron blast furnaces;
 - (M) Iron blast furnace slag;
 - (N)Treated residue from

roasting/leaching of chrome ore;

- (O)Process wastewater from primary magnesium processing by the anhydrous process;
- (P) Process wastewater from phosphoric acid production;
- (Q)Basic oxygen furnace and open hearth furnace air pollution control dust/sludge from carbon steel production;
- (R) Basic oxygen furnace and open hearth furnace slag from carbon steel production;
- (S) Chloride process waste solids from titanium tetrachloride production;
 - (T) Slag from primary zinc processing.

- (iii) A residue derived from coprocessing mineral processing secondary materials with normal beneficiation raw materials or with normal mineral processing raw materials remains excluded under paragraph (b) of this section if the owner or operator: (11/99; 8/00)
- (A)Processes at least 50 percent by weight normal beneficiation raw materials or normal mineral processing raw materials; and,
- (B) Legitimately reclaims the secondary mineral processing materials.
- (8) Cement kiln dust waste, except as provided by 266.112 for facilities that burn or process hazardous waste (12/92).
- (9) Solid waste which consists of discarded arsenical-treated wood or wood products which fails the test for the Toxicity Characteristic for Hazardous Waste Codes D004 through D017 and which is not a hazardous waste for any other reason, if the waste is generated by persons who utilize the arsenical-treated wood and wood product for these materials' intended end use. (11/90; 12/92; 12/93)
- (10) Petroleum-contaminated media and debris that fail the test for the Toxicity Characteristic of section 261.24 (Hazardous Waste Codes D018 through D043 only) and are subject to the corrective action regulations under 40 CFR 280. (11/90)
 - (11) [Reserved]
- (12) Used chlorofluorocarbon refrigerants from totally enclosed heat transfer equipment, including mobile air conditioning systems, mobile refrigeration, and commercial and industrial air conditioning and refrigeration systems that use chlorofluorocarbons as the heat transfer fluid in a refrigeration cycle, provided the refrigerant is reclaimed for further use (12/92).
- (13) Non-terne plated used oil filters that are not mixed with wastes listed in Subpart D of this part if these oil filters have been gravity hot-drained using one of the following methods: (12/93)
- (i) Puncturing the filter anti-drain back valve or the filter dome end and hot-draining;
 - (ii) Hot-draining and crushing;
 - (iii) Dismantling and hot-draining; or
- (iv) Any other equivalent hot-draining method that will remove used oil.
- (14) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products. (12/93)
- (15) Leachate or gas condensate collected from landfills where certain solid wastes have been disposed, provided that: (8/00, 6/03)
- (i) The solid wastes disposed would meet one or more of the listing descriptions for Hazardous Waste Codes K169, K170, K171, K172, K174, K175, K176, K177, and K178, if these wastes had been generated after the effective date of the listing; (6/03)

- (ii) The solid wastes described in paragraph (b)(15)(i) of this section were disposed prior to the effective date of the listing;
- (iii) The leachate or gas condensate do not exhibit any characteristic of hazardous waste nor are derived from any other listed hazardous waste;
- (iv) Discharge of the leachate or gas condensate, including leachate or gas condensate transferred from the landfill to a POTW by truck, rail, or dedicated pipe, is subject to regulation under sections 307(b) or 402 of the Clean Water Act.
- (v) As of February 13, 2001, leachate or gas condensate derived from K169-K172 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. After November 21, 2003, leachate or gas condensate derived from K176, K177, and K178 will no longer be exempt if it is stored or managed in a surface impoundment prior to discharge. There is one exception: if the surface impoundment is used to temporarily store leachate or gas condensate in response to an emergency situation (e.g., shutdown of wastewater treatment system), provided the impoundment has a double liner, and provided the leachate or gas condensate is removed from the impoundment and continues to be managed in compliance with the conditions of this paragraph after the emergency ends. (6/03)
- (c) Hazardous wastes which are exempted from certain regulations. A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit, is not subject to regulation under 262 through 266, 268, 270, and 124 or to the notification requirements of South Carolina Hazardous Waste Management Act 44-56-120 and section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials. (11/90; 12/92)

(d) Samples.

- (1) Except as provided in paragraph (d)(2) of this section, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this part or 262 through 266, 268, 270, or 124 or to the notification requirements of section 3010 of RCRA and the South Carolina Hazardous Waste Management Act 44-56-120 when: (11/90; 12/92)
- (i) The sample is being transported to a laboratory for the purpose of testing; or

- (ii) The sample is being transported back to the sample collector after testing; or
- (iii) The sample is being stored by the sample collector before transport to a laboratory for testing; or
- (iv) The sample is being stored in a laboratory before testing; or
- (v) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or
- (vi) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action where further testing of the sample may be necessary).
- (2) In order to qualify for the exemption in paragraphs (d)(1) (i) and (ii) of this section, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:
- (i) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
- (ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
- (A) Assure that the following information accompanies the sample:
- (1) The sample collector's name, mailing address, and telephone number;
- (2) The laboratory's name, mailing address, and telephone number;
 - (3) The quantity of the sample;
 - (4) The date of shipment: and
 - (5) A description of the sample.
- (B) Package the sample so that it does not leak, spill, or vaporize from its packaging.
- (3) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in paragraph (d)(1) of this section.
 - (e) Treatability Study Samples. (11/90; 12/94)
- (1) Except as provided in paragraph (e)(2) of this section, persons who generate or collect samples for the purpose of conducting treatability studies as defined in section 260.10, are not subject to any requirement of parts 261 through 263 or to the notification requirements of SC 44-56-120 and Section 3010 of RCRA, nor are such samples included in the quantity determinations of 261.5 and 262.34(d) when (12/92):
- (i) The sample is being collected and prepared for transportation by the generator or sample collector; or

- (ii) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or
- (iii) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- (2) The exemption in paragraph (e)(1) of this section is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
- (i) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and
- (ii) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and
- (iii) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of paragraph A or B of this subparagraph are met.
- (A) The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), South Carolina Public Service Commission or any other applicable shipping requirements; or
- (B) If the DOT, USPS, South Carolina Public Service Commission or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:
- (1) The name, mailing address, and telephone number of the originator of the sample;
- (2) The name, address, and telephone number of the facility that will perform the treatability study;
 - (3) The quantity of the sample;
 - (4) The date of shipment; and
 - (5) A description of the sample,

including its EPA Hazardous Waste Number.

- (iv) The sample is shipped to a laboratory or testing facility which is exempt under 261.4(f) or has an appropriate RCRA permit or interim status.
- (v) The generator or sample collector maintains the following records for a period ending 3 years after completion of the treatability study:
 - (A) Copies of the shipping documents;
- (B) A copy of the contract with the facility conducting the treatability study;
 - (C) Documentation showing:

- (1) The amount of waste shipped under this exemption;
- (2) The name, address, and EPA identification number of the laboratory or testing facility that received the waste;

made; and

- (3) The date the shipment was
- (4) Whether or not unused samples and residues were returned to the generator.
- (vi) The generator reports the information required under paragraph (e)(2)(v)(C) of this section in its annual report (12/92, 9/98).
- (3) The Department may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Department may grant requests on a case-by-case basis for quantity limits in excess of those specified in paragraphs (e)(2)(i) and (ii) and (f)(4) of this section, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:
- (i) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.
- (ii) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when: There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of a previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.
- (iii) The additional quantities and timeframes allowed in paragraph (e)(3) (i) and (ii) of this section are subject to all the provisions in paragraphs (e)(1) and (e)(2)(iii) through (vi) of this section. The generator or sample collector must apply to the Department and provide in writing the following information:
- (A) The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed,

- (B) Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;
- (C) A description of the technical modifications or change in specifications which will be evaluated and the expected results;
- (D) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and
- (E) Such other information that the Department considers necessary.
- (f) Samples Undergoing Treatability Studies at Laboratories and Testing Facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to RCRA requirements) are not subject to any requirement of this part, part 124, parts 262 through 266, 268, and 270, or to the notification requirements of SCHWMA 44-56-120 and Section 3010 of RCRA provided that the conditions of paragraphs (f) (1) through (11) of this section are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to paragraphs (f) (1) through (11) of this section. Where a group of MTUs are located at the same site, the limitations specified in (f) (1) through (11) of this section apply to the entire group of MTUs collectively as if the group were one MTU. (11/90; 12/92; 12/94)
- (1) No less than 45 days before conducting treatability studies, the facility notifies the Department in writing that it intends to conduct treatability studies under this paragraph.
- (2) The laboratory or testing facility conducting the treatability study has an EPA identification number.
- (3) No more than a total of 10,000 kg of "as received" media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste or 250 kg of other "as received" hazardous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.
- (4) The quantity of "as received" hazardous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of

- media contaminated with non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of non-acute hazardous wastes other than contaminated media, and 1 kg of acute hazardous waste. This quantity limitation does not include treatment materials (including nonhazardous solid waste) added to "as received" hazardous waste.
- (5) No more than 90 days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) have elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.
- (6) The treatability study does not involve the placement of hazardous waste on the land or open burning of hazardous waste.
- (7) The facility maintains records for 3 years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:
- (i) The name, address, and EPA identification number of the generator or sample collector of each waste sample;
 - (ii) The date the shipment was received;
 - (iii) The quantity of waste accepted;
- (iv) The quantity of "as received" waste in storage each day:
- (v) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;
- (vi) The date the treatability study was concluded;
- (vii) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated facility, the name of the facility and the EPA identification number.
- (8) The facility keeps, onsite, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending 3 years from the completion date of each treatability study.
- (9) The facility prepares and submits a report to the Department by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:

261.5 Special requirements for hazardous waste generated by conditionally exempt small quantity generators

- (i) The name, address, and EPA identification number of the facility conducting the treatability studies;
- (ii) The types (by process) of treatability studies conducted;
- (iii) The names and addresses of persons for whom studies have been conducted (including their EPA identification numbers);
- (iv) The total quantity of waste in storage each day;
- (v) The quantity and types of waste subjected to treatability studies;
- (vi) When each treatability study was conducted;
- (vii) The final disposition of residues and unused sample from each treatability study.
- (10) The facility determines whether any unused sample or residues generated by the treatability study are hazardous waste under 261.3 and, if so, are subject to parts 261 through 268, and part 270, unless the residues and unused samples are returned to the sample originator under the 261.4(e) exemption.
- (11) The facility notifies the Department by letter when the facility is no longer planning to conduct any treatability studies at the site. (11/90)
- (g) Dredged material that is not a hazardous waste. Dredged material that is subject to the requirements of a permit that has been issued under 404 of the Federal Water Pollution Control Act (33 U.S.C.1344) or section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413) is not a hazardous waste. For this paragraph (g), the following definitions apply: (8/00)
- (1) The term dredged material has the same meaning as defined in 40 CFR 232.2;
 - (2) The term permit means:
- (i) A permit issued by the U.S. Army Corps of Engineers (Corps) or an approved State under section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344);
- (ii) A permit issued by the Corps under section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413); or
- (iii) In the case of Corps civil works projects, the administrative equivalent of the permits referred to in paragraphs (g)(2)(i) and (ii) of this section, as provided for in Corps regulations (for example, see 33 CFR 336.1, 336.2, and 337.6).

261.5 Special requirements for hazardous waste generated by conditionally exempt small quantity generators

(a) A generator is a conditionally exempt small quantity generator in a calendar month if he generates no more than 100 kilograms of hazardous waste in that month. (6/89, 12/92)

- (b) Except for those wastes identified in paragraphs (e), (f), (g), and (j) of this section, a conditionally exempt small quantity generator's hazardous wastes are not subject to regulation under 262 through 266, 268, 270 and 124, and the notification requirements of section 3010 of RCRA and the South Carolina Hazardous Waste Management Act 44-56-60 and provided the generator complies with the requirements of paragraphs (f), (g), and (j) of this section (6/89, 11/90).
- (c) When making the quantity determinations of this part and 262, the generator must include all hazardous waste that it generates, except hazardous waste that: (5/96)
- (1) Is exempt from regulation under 261.4(c) through (f), 261.6(a)(3), 261.7(a)(1), or 261.8; or (5/96)
- (2) Is managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in 260.10; or (5/96)
- (3) Is recycled, without prior storage or accumulation, only in an on-site process subject to regulation under 261.6(c)(2); or (5/96)
- (4) Is used oil managed under the requirements of 261.6(a)(4) or (5/96)
- (5) Is spent lead-acid batteries managed under the requirements of 266 subpart G; or (5/96)
- (6) Is universal waste managed under 261.9 and 273. (5/96)
- (d) In determining the quantity of hazardous waste generated, a generator need not include:
- (1) Hazardous waste when it is removed from onsite storage; or
- (2) Hazardous waste produced by onsite treatment (including reclamation) of his hazardous waste, so long as the hazardous waste that is treated was counted once; or (6/89)
- (3) Spent materials that are generated, reclaimed, and subsequently reused onsite, so long as such spent materials have been counted once. (6/89)
- (e) If a generator generate s acute hazardous waste in a calendar month in quantities greater than set forth below, all quantities of that acute hazardous waste are subject to full regulation under 262 through 266, 268, R.61-79.270 and 124 and the notification requirements of the South Carolina Hazardous Waste Management Act 44-56-120 and section 3010 of RCRA: (11/90; 12/92)
- (1) A total of one kilogram of acute hazardous wastes listed in sections 261.31, 261.32, or 261.33(e).
- (2) A total of 100 kilograms of any residue or contaminated soil, waste, or other debris resulting from the clean-up of a spill, into or on any land or water, of any acute hazardous wastes listed in sections 261.31, 261.32, or 261.33(e).

[Comment: "Full regulation" means those regulations applicable to generators of greater than 1,000 kg of

non-acutely hazardous waste in a calendar month.] (12/93)

- (f) In order for acute hazardous wastes generated by a generator of acute hazardous wastes in quantities equal to or less than those set forth in paragraph (e)(1) or (2) of this section to be excluded from full regulation under this section, the generator must comply with the following requirements: (11/90, 12/92)
 - (1) Section 262.11;
- (2) The generator may accumulate acute hazardous waste onsite. If he accumulates at any time acute hazardous wastes in quantities greater than those set forth in paragraph (e)(1) or (e)(2) of this section, all of those accumulated wastes are subject to regulation under 262 through 266, 268, 270 and 124 and the applicable notification requirements of section 3010 RCRA and the applicable notification requirements of the South Carolina Hazardous Waste Management Act 44-56-120. The time period of 262.34(a) for accumulation of wastes onsite, begins when the accumulated wastes exceed the applicable exclusion limit; (11/90, 12/92)
- (3) A conditionally exempt small quantity generator may either treat or dispose of his acute hazardous waste in an onsite facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is: (6/89)
 - (i) Permitted under 270;
 - (ii) In interim status under 270 and 265:
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under 40 CFR 271; (12/92)
- (iv) Permitted, licensed, or registered by the Department to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to R.61-107.258; (12/92, 5/96, 9/98)
- (v) Permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in R.61-107.257.5 through 257.30; or (9/98)
 - (vi) A facility which:
- (A)Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or (5/96)
- (vii) For universal waste managed under part 273, a universal waste handler or destination facility subject to the requirements of 273. (5/96)
- (g) In order for hazardous waste generated by a conditionally exempt small quantity generator in quantities of less than 100 kilograms of hazardous waste during a calendar month to be excluded from full regulation under this section, the generator must comply with the following requirements: (6/89)

- (1) Section 262.11;
- (2) The conditionally exempt small quantity generator may accumulate hazardous waste onsite. If he accumulates at any time more than a total of 1000 kilograms of his hazardous wastes, all of those accumulated wastes are subject to regulation under the special provisions of 262 applicable to generators of between 100 kg and 1000 kg of hazardous waste in a calendar month as well as the requirements of 263 through 266, 268, and 270 and 124 and the applicable notification requirements of section 3010 of RCRA and the notification requirements of the South Carolina Hazardous Waste Management Act 44-56-120. The time period of 262.34(d) for accumulation of wastes onsite begins for a conditionally exempt small quantity generator when the accumulated wastes exceed 1000 kilograms; (11/90, 12/92)
- (3) A conditionally exempt small quantity generator may either treat or dispose of his hazardous waste in an onsite facility or ensure delivery to an off-site treatment, storage or disposal facility, either of which, if located in the U.S., is:
 - (i) Permitted under 270;
 - (ii) In interim status under 270 and 265;
- (iii) Authorized to manage hazardous waste by a State with a hazardous waste management program approved under 40 CFR 271 (12/92);
- (iv) Permitted, licensed, or registered by the Department to manage municipal solid waste, and, if managed in a municipal solid waste landfill is subject to R.61-107.258; (6/89, 12/92; 5/96, 9/98)
- (v) Permitted, licensed, or registered by the Department to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit after January 1, 1998, is subject to the requirements in R.61-107.257.5 through 257.30; or (9/98)
 - (vi) A facility which:
- (A)Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or
- (B) Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation; or (5/96)
- (vii) For universal waste managed under part 273, a universal waste handler or destination facility subject to the requirements of 273. (5/96)
- (h) Hazardous waste subject to the reduced requirements of this section may be mixed with nonhazardous waste and remain subject to these reduced requirements even though the resultant mixture exceeds the quantity limitations identified in this section, unless the mixture meets any of the characteristics of hazardous waste identified in subpart C.
- (i) If any person mixes a solid waste with a hazardous waste that exceeds a quantity exclusion

level of this section, the mixture is subject to full regulation. (11/90)

- (*j*) If a conditionally exempt small quantity generator's wastes are mixed with used oil, the mixture is subject to subpart E of part 266 of this Regulation if it is destined to be burned for energy recovery. Any material produced from such a mixture by processing, blending, or other treatment is also so regulated if it is destined to be burned for energy recovery. (6/89)
 - (*k*) [Reserved; moved to 262 12/92]

261.6 Requirements for recyclable materials

- (a) (1) Hazardous wastes that are recycled are subject to the requirements for generators, transporters, and storage facilities of paragraphs (b) and (c) of this section, except for the materials listed in paragraphs (a)(2) and (a)(3) of this section. Hazardous wastes that are recycled will be known as "recyclable materials."
- (2) The following recyclable materials are not subject to the requirements of this section but are regulated under subparts C through H of 266 and all applicable provisions in 270 and 124 (12/92):
- (i) Recyclable materials used in a manner constituting disposal (subpart C);
- (ii) Hazardous wastes burned for energy recovery in boilers and industrial furnaces that are not regulated under subpart O of 264 or 265 (Subpart H); (11/90, 12/92)
- (iii) Used oil that exhibits one or more of the characteristics of hazardous waste and is burned for energy recovery in boilers and industrial furnaces that are not regulated under subpart O of 264 or 265 or E of 266); (11/90)
- (iv) Recyclable materials from which precious metals are reclaimed (subpart F);
- (v) Spent lead-acid batteries that are being reclaimed (subpart G).
- (3) The following recyclable materials are not subject to regulation under 262 through 266, or 268, 270 or 124 and are not subject to the notification requirements of section 3010 RCRA and the notification requirements of the South Carolina Hazardous Waste Management Act (11/90, 12/92, 6/03):
- (i) Industrial ethyl alcohol that is reclaimed except that, unless provided otherwise in an international agreement as specified in 262.58:
- (A) A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in sections 262.53, 262.56 (a)(1) (4), (6), and (b), and 262.57, export such materials only upon consent of the receiving country and in conformance with the EPA Acknowledgement of Consent as defined in

subpart E of 262 and provide a copy of the EPA Acknowledgement of Consent to the shipment to the transporter transporting the shipment for export;(11/90)

- (B) Transporters transporting a shipment for export may not accept a shipment if he knows the shipment does not conform to the EPA Acknowledgement of Consent, must ensure that a copy of the EPA Acknowledgement of Consent accompanies the shipment and must ensure that it is delivered to the facility designated by the person initiating the shipment.
- (ii) Scrap metal that is not excluded under 261.4(a)(13). (10/01);
- (iii) Fuels produced from the refining of oil-bearing hazardous waste along with normal process streams at a petroleum refining facility if such wastes result from normal petroleum refining, production, and transportation practices (this exemption does not apply to fuels produced from oil recovered from oil-bearing hazardous waste, where such recovered oil is already excluded under 261.4(a)(12); (10/01, 6/03)
- (iv) (A)Hazardous waste fuel produced from oil-bearing hazardous wastes from petroleum refining, production, or transportation practices, or produced from oil reclaimed from such hazardous wastes, where such hazardous wastes are reintroduced into a process that does not use distillation or does not produce products from crude oil so long as the resulting fuel meets the used oil specification under R.61-79.266.40(e) and so long as no other hazardous wastes are used to produce the hazardous waste fuel; (12/92, 5/96, 6/03)
- (B) Hazardous waste fuel produced from oil-bearing hazardous waste from petroleum refining production, and transportation practices, where such hazardous wastes are reintroduced into a refining process after a point at which contaminants are removed, so long as the fuel meets the used oil fuel specification under R.61-79.266.40(e); and
- (C) Oil reclaimed from oil-bearing hazardous wastes from petroleum refining, production, and transportation practices, which reclaimed oil is burned as a fuel without reintroduction to a refining process, so long as the reclaimed oil meets the used oil fuel specification under R.61-79.266.40(e); and
- (v) US Filter Recovery Services XL waste (Subpart O). (6/03)
- (vi) Used oil that exhibits one or more of the characteristics of hazardous waste but is recycled in some other manner than being burned for energy recovery (2/92, 8/00, 9/01 6/03)
- (4) Used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of parts 260 through 268, but is regulated under 266

- Subpart E. Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is re-refined, reclaimed, burned for energy recovery, or reprocessed. (12/93)
- (5) Hazardous waste that is exported to or imported from designated member countries of the Organization for Economic Cooperation and Development (OECD) (as defined in 262.58(a)(1)) for purpose of recovery is subject to the requirements of part 262, subpart H, if it is subject to either the federal manifesting requirements of Part 262, to the universal waste management standards of Part 273. (9/98)
- (b) Generators and transporters of recyclable materials are subject to the applicable requirements of 262 and 263 of these Regulations, and the notification requirements under 44-56-120 and section 3010 of RCRA, except as provided in paragraph (a) of this section (12/92).
- (c) (1) Owners and operators of facilities that store recyclable materials before they are recycled are regulated under all applicable provisions of subparts A through L, AA, BB and CC of 264 and 265, and under 266, 268, 270, and 124 and the notification requirements of section 3010 RCRA and the notification requirements of the South Carolina Hazardous Waste Management Act 44-56-120, except as provided in paragraph (a) of this section. (The recycling process itself is exempt from regulation except as provided in 261.6(d).) (11/90, 12/92, 9/98)
- (2) Owners or operators of facilities that recycle recyclable materials without storing them before they are recycled are subject to the following requirements, except as provided in paragraph (a) of this section:
- (i) Notification requirements under SCHWMA 44-56-120, and section 264.5 or section 265.5 and section 3010 of RCRA; (10/01)
- (ii) Sections 265.71 and 265.72 (dealing with the use of the manifest and manifest discrepancies) of 265.
 - (iii) Section 261.6(d) (12/92).
- (d) Owners or operators of facilities subject to RCRA permitting requirements with hazardous waste management units that recycle hazardous wastes are subject to the requirements of subparts AA and BB of part 264 or 265 (12/92).

261.7 Residues of hazardous waste in empty containers

(a) (1) Any hazardous waste remaining in either (i) an empty container or (ii) an inner liner removed from an empty container, as defined in paragraph (b) of this section, is not subject to regulation under 261 through 266, or 268, 124, and 270 or to the notification requirements of section 3010 RCRA and the South

- **261.8 PCB** wastes regulated under Toxic Substance Control Act Carolina Hazardous Waste Management Act 44-56-120. (11/90, 12/92)
- (2) Any hazardous waste in either (i) a container that is not empty or (ii) an inner liner removed from a container that is not empty, as defined in paragraph (b) of this section, is subject to regulation under 261 through 266, and 268, 124, and 270 and to the notification requirements of section 3010 RCRA and the South Carolina Hazardous Waste Management Act 44-56-120 (11/90, 12/92).
- (b) (1) A container or an inner liner removed from a container that has held any hazardous waste, except a waste that is a compressed gas or that is identified as an acute hazardous waste listed in sections 261.31, 261.32, or 261.33(e) of this regulation, is empty if:
- (i) All wastes have been removed that can be removed using the practices commonly employed to remove materials from that type of container, e.g., pouring, pumping, and aspirating, and
- (ii) No more than 2.5 centimeters (one inch) of residue remain on the bottom of the container or inner liner, or
- (iii) (A)No more than 3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is less than or equal to 110 gallons in size, or
- (B) No more than 0.3 percent by weight of the total capacity of the container remains in the container or inner liner if the container is greater than 110 gallons in size.
- (2) A container that has held a hazardous waste that is a compressed gas is empty when the pressure in the container approaches atmospheric.
- (3) A container or an inner liner removed from a container that has held an acute hazardous waste listed in sections 261.31, 261.32, or 261.33(e) of this regulation is empty if:
- (i) The container or inner liner has been triple rinsed using a solvent capable of removing the commercial chemical product or manufacturing chemical intermediate;
- (ii) The container or inner liner has been cleaned by another method that has been shown in the scientific literature, or by tests conducted by the generator, to achieve equivalent removal; or
- (iii) In the case of a container, the inner liner that prevented contact of the commercial chemical product or manufacturing chemical intermediate with the container, has been removed.

261.8 PCB wastes regulated under Toxic Substance Control Act

The disposal of PCB-containing dielectric fluid and electric equipment containing such fluid authorized for use and regulated under 40 CFR 761 and that are hazardous only because they fail the test for the Toxicity Characteristic (Hazardous Waste Codes

D018 through D043 only) are exempt from regulation under parts 261 through 265, and parts 268, 270, and 124, and the notification requirements of section 3010 of RCRA and the South Carolina Hazardous Waste Management Act 44-56-120 (11/90, 12/92)

261.9 Requirements for Universal Waste

The wastes listed in this section are exempt from regulation under parts 262 through 270 except as specified in part 273 and, therefore are not fully regulated as hazardous waste. The wastes listed in this section are subject to regulation under 273: (5/96, 8/00)

- (a) Batteries as described in 273.2;
- (b) Pesticides as described in 273.3;
- (c) Thermostats as described in 273.4 and
- (d) Lamps as described in 273.5.

Subpart B - Criteria for Identifying the Characteristics of Hazardous Waste & for Listing Hazardous Waste

261.10 Criteria for identifying the characteristics of hazardous waste

- (a) The Department shall identify and define a characteristic of hazardous waste in subpart C only upon determining that (12/92):
- (1) A solid waste that exhibits the characteristic may: (11/90)
- (i) Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or
- (ii) Pose a substantial present or potential hazard to human health or the environment when it is improperly treated, stored, transported, disposed of or otherwise managed; and
 - (2) The characteristic can be:
- (i) Measured by an available standardized test method which is reasonably within the capability of generators of solid waste or private sector laboratories that are available to serve generators of solid waste; or
- (ii) Reasonably detected by generators of solid waste through their knowledge of their waste.

261.11 Criteria for listing hazardous waste

- (a) The Department shall list a solid waste as a hazardous waste only upon determining that the solid waste meets one of the following criteria (12/92):
- (1) It exhibits any of the characteristics of hazardous waste identified in subpart C.
- (2) It has been found to be fatal to humans in low doses or, in the absence of data on human toxicity, it has been shown in studies to have an oral LD 50 toxicity (rat) of less than 50 milligrams per kilogram, an inhalation LC 50 toxicity (rat) of less than 2 milligrams per liter, or a dermal LD 50 toxicity

261.11 Criteria for listing hazardous waste

- (rabbit) of less than 200 milligrams per kilogram or is otherwise capable of causing or significantly contributing to an increase in serious irreversible, or incapacitating reversible, illness. (Waste listed in accordance with these criteria will be designated Acute Hazardous Waste.)
- (3) It contains any of the toxic constituents listed in appendix VIII and, after considering the following factors, the Department concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed: (12/92)
- (i) The nature of the toxicity presented by the constituent.
- (ii) The concentration of the constituent in the waste.
- (iii) The potential of the constituent or any toxic degradation product of the constituent to migrate from the waste into the environment under the types of improper management considered in paragraph (a)(3)(vii) of this section.
- (iv) The persistence of the constituent or any toxic degradation product of the constituent.
- (v) The potential for the constituent or any toxic degradation product of the constituent to degrade into non-harmful constituents and the rate of degradation.
- (vi) The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems.
- (vii) The plausible types of improper management to which the waste could be subjected.
- (viii) The quantities of the waste generated at individual generation sites or on a regional or national basis.
- (ix) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent.
- (x) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent.
- (xi) Such other factors as may be appropriate.

Substances will be listed on Appendix VIII only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

(Wastes listed in accordance with these criteria will be designated Toxic wastes.)

(b) The Department list classes or types of solid waste as hazardous waste if there is reason to believe that individual wastes, within the class or type of waste, typically or frequently are hazardous under the

- definition of hazardous waste in Section 261.3 and found in section 1004(5) of RCRA.(10/01)
- (c) The Department will use the criteria for listing specified in this section to establish the exclusion limits referred to in Section 261.5(c).

Subpart C - Characteristics of Hazardous Waste

261.20 General

(a) A solid waste, as defined in section 261.2, which is not excluded from regulation as a hazardous waste under section 261.4(b), is a hazardous waste if it exhibits any of the characteristics identified in this subpart.

[Comment: 262.11 sets forth the generators responsibility to determine whether his waste exhibits one or more of the characteristics identified in this subpart (12/92)]

- (b) A hazardous waste which is identified by a characteristic in this subpart is assigned every EPA Hazardous Waste Number that is applicable as set forth in this subpart. This number must be used in complying with the notification requirements of section 3010 of the Act and all applicable recordkeeping and reporting requirements under 262 through 266, 268, 270 and the notification requirements of the South Carolina Hazardous Waste Management Act 44-56-120 (11/90, 12/92).
- (c) For purposes of this subpart, the Department will consider a sample obtained using any of the applicable sampling methods specified in Appendix I to be a representative sample within the meaning of 260.

[Comment: Since the Appendix I sampling methods are not being formally adopted by the Department, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his method under the procedures set forth in 260.20 and 260.21 (12/92)].

261.21 Characteristic of ignitability

- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has any of the following properties:
- (1) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and has flash point less than 60°C (140° F) as determined by a Pensky-Martens Closed Cup Tester, using the test method specified in ASTM Standard D-93-79 or D-93-80 (incorporated by reference, see 260.11) or a Setaflash Closed Cup Tester, using the test method specified in ASTM Standard D-3278-78 (incorporated by reference, see 260.11), or as determined by an equivalent test method approved by the Department under procedures set forth in 260.20 and 260.21. (11/90, 12/92)

261.23 Characteristic of reactivity

- (2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard.
- (3) It is an ignitable compressed gas as defined in 49 CFR 173.300 and as determined by the test methods described in that regulation or equivalent test methods approved by the Department under 260.20 and 260.21. (12/93)
- (4) It is an oxidizer as defined in 49 CFR 173.151.
- (b) A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001 (12/92).

261.22 Characteristic of corrosivity

- (a) A solid waste exhibits the characteristic of corrosivity if a representative sample of the waste has either of the following properties: (12/94)
- (1) It is aqueous and has a pH less than or equal to 2 or greater than or equal to 12.5, as determined by a pH meter using Method 9040 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 260.11. (12/93, 9/01)
- (2) It is a liquid and corrodes steel (SAE 1020) at a rate greater than 6.35 mm (0.250 inch) per year at a test temperature of 55°C (130°F) as determined by the test method specified in NACE (National Association of Corrosion Engineers) Standard TM-01-69 as standardized in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA publication SW-846, incorporated by reference in 260.11. (12/93)
- (b) A solid waste that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002. (12/92)

261.23 Characteristic of reactivity

- (a) A solid waste exhibits the characteristic of reactivity if a representative sample of the waste has any of the following properties:
- (1) It is normally unstable and readily undergoes violent change without detonating.
 - (2) It reacts violently with water.
- (3) It forms potentially explosive mixtures with water.
- (4) When mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment.
- (5) It is a cyanide or sulfide bearing waste which, when exposed to pH conditions between 2 and 12.5, can generate toxic gases, vapors or fumes in a

quantity sufficient to present a danger to human health or the environment.

- (6) It is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement.
- (7) It is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure.
- (8) It is a forbidden explosive as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53 or a Class B explosive as defined in 49 CFR 173.88.
- (b) A solid waste that exhibits the characteristic of reactivity has the EPA Hazardous Waste Number of D003. (12/92)

261.24 Toxicity characteristic (11/90)

(a) A solid waste (except manufactured gas plant waste) exhibits the characteristic of toxicity if, using

the Toxicity Characteristic Leaching Procedure, test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 260.11, the extract from a representative sample of the waste contains any of the contaminants listed in Table I at the concentration equal to or greater than the respective value given in that table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this section. (12/92, 12/93, 12/94, 6/03)

(b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous (12/92).

	ximum Concentration of Contar		Toxicity Characteristic (11/90)
EPA HW # 1	Contaminant	CAS No. 2	Regulatory Level (mg/L)
D004	Arsenic	7440-38-2	5.0
D005	Barium	7440-39-3	100.0
D018	Benzene	71-43-2	0.5
D006	Cadmium	7440-43-9	1.0
D019	Carbon tetrachloride	56-23-5	0.5
D020	Chlordane	57-74-9	0.03
D021	Chlorobenzene	108-90-7	100.0
D022	Chloroform	67-66-3	6.0
D007	Chromium	7440-47-3	5.0
D023	o-Cresol	95-48-7	4 200.0
D024	m-Cresol	108-39-4	4 200.0
D025	p-Cresol	106-44-5	4 200.0
D026	Cresol		4 200.0
D016	2,4-D	94-75-7	10.0
D027	1,4-Dichlorobenzene	106-46-7	7.5
D028	1,2-Dichloroethane	107-06-2	0.5
D029	1,1-Dichloroethylene	75-35-4	0.7
D030	2,4-Dinitrotoluene	121-14-2	³ 0.13
D012	Endrin	72-20-8	0.02
D031	Heptachlor (and its epoxide)	76-44-8	0.008
D032	Hexachlorobenzene	118-74-1	³ 0.13
D033	Hexachlorobutadiene	87-68-3	0.5
D034	Hexachloroethane	67-72-1	3.0
D008	Lead	7439-92-1	5.0
D013	Lindane	58-89-9	0.4
D009	Mercury	7439-97-6	0.2
D014	Methoxychlor	72-43-5	10.0
D035	Methyl ethyl ketone	78-93-3	200.0
D036	Nitrobenzene	98-95-3	2.0
D037	Pentrachlorophenol	87-86-5	100.0
D038	Pyridine	110-86-1	³ 5.0
D010	Selenium	7782-49-2	1.0
D011	Silver	7440-22-4	5.0
D039	Tetrachloroethylene	127-18-4	0.7
D015	Toxaphene	8001-35-2	0.5
D040	Trichloroethylene	79-01-6	0.5
D041	2,4,5-Trichlorophenol	95-95-4	400.0
D042	2,4,6-Trichlorophenol	88-06-2	2.0
D017	2,4,5-TP (Silvex)	93-72-1	1.0
D043	Vinyl chloride	75-01-4	0.2

¹ Hazardous waste number.

Subpart D - Lists of Hazardous Wastes

261.30 General

- (a) A solid waste is a hazardous waste if it is listed in this subpart, unless it has been excluded from this list under 260.20 and 260.22.
- (b) The Department will indicate the basis for listing the classes or types of wastes listed in this subpart by employing one or more of the following Hazard Codes: (11/90)

Ignitable Waste (I)

Corrosive Waste (C)

Reactive Waste (R)

Toxicity Characteristic (E)

Acute Hazardous Waste (H)

Toxic Waste (T)

Appendix VII identifies the constituent which caused the Department to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in sections 261.31 and 261.32.

- (c) Each hazardous waste listed in this subpart is assigned an EPA Hazardous Waste Number which precedes the name of the waste. This number must be used in complying with the notification requirements of SC 44-56-120 and RCRA Section 3010 and certain recordkeeping and reporting requirements under 262 through 266, 268, and 270. (12/92)
- (*d*) The following hazardous wastes listed in section 261.31 or 261.32 are subject to the exclusion limits for acutely hazardous wastes established in section 261.5: EPA Hazardous Wastes Numbers F020, F021, F022, F023, F026, and F027.

261.31 Hazardous wastes from non-specific sources

(a) The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under 260.20 and 260.22 and listed in Appendix IX.

Industry &	261.31 Table Hazardous waste from nonspecific sources	Hazard
EPA HW#	(11/90, 12/92)	code
Generic: F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2- trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1, 1, 2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvents mixtures.	(T)
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I)
F004	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvents mixtures.	(T)
F005	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I, T)
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating a carbon steel; and (6) chemical etching and milling of aluminum.	(T)
F007	Spent cyanide plating bath solutions from electroplating operations.	(R, T)
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	(R, T)
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	(R, T)

² Chemical abstracts service number.

³ Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

⁴ If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

Industry &	261.31 Hazardous wastes from non-specific sources	Hazard
EPA HW#	(11/90, 12/92)	code
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	(R, T)
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	(R, T)
F012	Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.	(T)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. (12/93)	(T)
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol).	(H)
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	(H)
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4, 5-trichlorophenol.)	(H)
F024	Process wastes, including, but not limited to, distillation residues, heavy ends, tars, and reactor cleanout wastes from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. [This listing does not include wastewater, wastewater treatment sludges, spent catalysts, and wastes listed in Section 261.31 or 261.32]. (12/93)	(T)
F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and depositions of chlorine substitution.	(T)
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	(H)
F027	Discarded unused formulations containing tri-, tetra- or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from pre-purified 2,4,5-trichlorophenol as the sole component.).	(H)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.	(T)
F032	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with 261.35 or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol. (12/93)	(T)
F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol. (12/93)	(T)
F035	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol. (12/93)	(T)

Industry &	261.31 Table Hazardous waste from nonspecific sources	Hazard
EPA HW#	(11/90, 12/92)	code
F037	Petroleum refinery primary oil/water/solids separation sludge-Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to: those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under 261.4(a)(12)(i), if those residuals are to be disposed of. (8/00, 9/01)	(T)
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge-Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in 261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing (12/92).	(T)
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F023, F026, F027, and/or F028.) (12/92, 12/93).	(T)

(b) Listing Specific Definitions:

- (1) For the purposes of the F037 and F038 listings, oil/water/solids is defined as oil and/or water and/or solids (12/92).
- (2) (i) For the purposes of the F037 and F038 listings, aggressive biological treatment units are defined as units which employ one of the following four treatment methods: activated sludge; trickling filter; rotating biological contactor for the continuous accelerated biologic al oxidation of wastewaters; or high-rate aeration. High-rate aeration is a system of surface impoundments or tanks, in which intense mechanical aeration is used to completely mix the wastes, enhance biological activity, and (A) the units employs a minimum of 6 hp per million gallons of treatment volume; and either (B) the hydraulic retention time of the unit is no longer than 5 days; or (C) the hydraulic retention time is no longer than 30 days and the unit does not generate a sludge that is a hazardous waste by the Toxicity Characteristic.
- (ii) Generators and treatment, storage and disposal facilities have the burden of proving that their sludges are exempt from listing as F037 and F038 wastes under this definition. Generators and treatment, storage and disposal facilities must maintain, in their operating or other onsite records, documents and data sufficient to prove that:
- (A) the unit is an aggressive biological treatment unit as defined in this subsection; and (B) the sludges sought to be exempted
- (B) the sludges sought to be exempte from the definitions of F037 and/or F038 were actually generated in the aggressive biological treatment unit. (10/01)

- (3)(i) For the purposes of the F037 listing, sludges are considered to be generated at the moment of deposition in the unit, where deposition is defined as at least a temporary cessation of lateral particle movement.
- (ii) For the purposes of the F038 listing,
 (A) sludges are considered to be
 generated at the moment of deposition in the unit,
 where deposition is defined as at least a temporary
 cessation of lateral particle movement and
- (B) floats are considered to be generated at the moment they are formed in the top of the unit.

261.32 Hazardous wastes from specific sources

The following solid wastes are listed hazardous wastes from specific sources unless they are excluded under 260.20 and 260.22 and listed in Appendix IX. (12/92, 5/96, 9/98, 9/01)

Industry, SC &	261.32 Hazardous Wastes	Hazard
EPA HW #	from specific sources -	code
LIAIIW#		code
	Hazardous waste	
Wood preservation:		
K001	Bottom sediment sludge from	(T)
	the treatment of wastewaters	
	from wood preserving	
	processes that use creosote	
	and/or pentachlorophenol.	
Inorganic		
pigments:		
K002	Wastewater treatment sludge	(T)
	from the production of chrome	
	yellow and orange pigm ents.	
K003	Wastewater treatment sludge	(T)
	from the production of	
	molybdate orange pigments.	

77004		L (m)
K004	Wastewater treatment sludge	(T)
	from the production of zinc	
K005	yellow pigments.	(T)
K005	Wastewater treatment sludge	(1)
	from the production of chrome	
K006	green pigments. Wastewater treatment sludge	(T)
K000	from the production of chrome	(1)
	oxide green pigments	
	(anhydrous and hydrated).	
K007	Wastewater treatment sludge	(T)
11007	from the production of iron	(1)
	blue pigments.	
K008	Oven residue from the	(T)
	production of chrome oxide	,
	green pigments.	
Organic chemicals:		
K009	Distillation bottoms from the	(T)
	production of acetaldehyde	
	from ethylene.	
K010	Distillation side cuts from the	(T)
	production of acetaldehyde	
	from ethylene.	
K011	Bottom stream from the	(R, T)
	wastewater stripper in the	
	production of acrylonitrile.	
K013	Bottom stream from the	(R, T)
	acetonitrile column in the	
T701.4	production of acrylonitrile.	(TD)
K014	Bottoms from the acetonitrile	(T)
	purification column in the	
K015	production of acrylonitrile. Still bottoms from the	(T)
K013	distillation of benzyl chloride.	(1)
K016	Heavy ends or distillation	(T)
K010	residues from the production of	(1)
	carbon tetrachloride.	
K017	Heavy ends (still bottoms)	(T)
KO17	from the purification column in	(1)
	the production of	
	epichlorohydrin.	
K018	Heavy ends from the	(T)
	fractionation column in ethyl	,
	chloride production.	
K019	Heavy ends from the	(T)
	distillation of ethylene	
	dichloride in ethylene	
	dichloride production.	
K020	Heavy ends from the	(T)
	distillation of vinyl chloride in	
	vinyl chloride monomer	
*****	production.	(m)
K021	Aqueous spent antimony	(T)
	catalyst waste from	
1/000	fluoromethanes production.	(TC)
K022	Distillation bottom tars from	(T)
	the production of	
K023	phenol/acetone from cumene. Distillation light ends from the	(T)
NU43	production of phthalic	(1)
	anhydride from naphthalene.	
K024	Distillation bottoms from the	(T)
11U2T	production of phthalic	(1)
	anhydride from naphthalene.	
K025	Distillation bottoms from the	(T)
	production of nitrobenzene by	(-)
	the nitration of benzene.	

K026	Stripping still tails from the production of methy ethyl	(T)
K027		
K027		
K027	pyridines.	(D T)
	Centrifuge and distillation residues from toluene	(R, T)
	diisocyanate production.	
K028	Spent catalyst from the	(T)
	hydrochlorinator reactor in the	,
	production of 1,1,1-	
	trichloroethane.	
K029	Waste from the product steam	(T)
	stripper in the production of 1.1.1-trichloroethane.	
K030	Column bottoms or heavy ends	(T)
11030	from the combined production	(1)
	of trichloroethylene and	
	perchloroethylene.	
K083	Distillation bottoms from	(T)
1700 %	aniline production.	(TD)
K085	Distillation or fractionation column bottoms from the	(T)
	production of chlorobenzenes.	
K093	Distillation light ends from the	(T)
110,0	production of phthalic	(1)
	anhydride from ortho-xylene.	
K094	Distillation bottoms from the	(T)
	production of phthalic	
17005	anhydride from ortho-xylene.	(T)
K095	Distillation bottoms from the production of 1,1,1-	(T)
	trichloroethane.	
K096	Heavy ends from the heavy	(T)
	ends column from the	
	production of 1,1,1-	
*****	trichloroethane.	(TT)
K103	Process residues from aniline	(T)
	extraction from the production of aniline.	
K104	Combined wastewater streams	(T)
	generated from	,
	nitrobenzene/aniline	
17105	production.	(TD)
K105	Separated aqueous stream from	(T)
	the reactor product washing step in the production of	
	chlorobenzenes.	
K107	Column bottoms from product	(C, T)
	separation from the production	
	of 1,1-dimethyl-hydrazine	
	(UDMH) from carboxylic acid	
K108	hydrazines. Condensed column overheads	(I, T)
K100	from product separation and	(1, 1)
	condensed reactor vent gases	
	from the production of 1,1-	
	dimethylhydrazine (UDMH)	
	from carboxylic acid	
K109	hydrazides. Spent filter cartridges from	(T)
K1U7	product purification from the	(T)
	production of 1,1-	
	dimethylhydrazine (UDMH)	
	from carboxylic acid	
	hydrazides.	

_		
K110	Condensed column overheads	(T)
	from intermediate separation	
	from the production of 1,1-	
	dimethylhydrazine (UDMH)	
	from carboxylic acid	
TZ 1 1 1	hydrazides.	(C T)
K111	Product washwaters from the	(C, T)
	production of dinitrotoluene	
I/110	via nitration of toluene.	(TF)
K112	Reaction by-product water	(T)
	from the drying column in the	
	production of toluenediamine	
	via hydrogenation of dinitrotoluene.	
K113	Condensed liquid light ends	(T)
K113	from the purification of	(1)
	toluenediamine in the	
	production of toluenediamine	
	via hydrogenation of	
	dinitrotoluene.	
K114	Vicinals from the purification	(T)
11117	of toluenediamine in the	(1)
	production of toluenediamine	
	via hydrogenation of	
	dinitrotoluene.	
K115	Heavy ends from the	(T)
	purification of toluenediamine	, ,
	in the production of	
	toluenediamine via	
	hydrogenation of	
	dinitrotoluene.	
K116	Organic condensate from the	(T)
	solvent recovery column in the	
	production of toluene	
	diisocyanate via phosgenation	
*****	of toluenediamine.	(m)
K117	Wastewater from the reactor	(T)
	vent gas scrubber in the	
	production of ethylene	
	dibromide via bromination of ethene.	
K118	Spent adsorbent solids from	(T)
17110	purification of ethylene	(1)
	dibromide in the production of	
	ethylene dibromide via	
	bromination of ethene.	
K136	Still bottoms from the	(T)
	purification of ethylene	(-)
	dibromide in the production of	
	ethylene dibromide via	
	bromination of ethene.	
K149	Distillation bottoms from the	(T)
	production of alpha- (or	
	methyl-) chlorinated toluenes,	
	ring-chlorinated toluenes,	
	benzoyl chlorides, and	
	compounds with mixtures of	
	these functional groups, (This	
	waste does not include still	
	bottoms from the distillation of	
	benzyl chloride.).	

	Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and	(T)
	the spent chlorine gas and	
	the spent chlorine gas and	
	1 &	
	1 1 11 ' '1	
	hydrochloric acid recovery	
	processes associated with the	
i I	production of alpha- (or	
	methyl-) chlorinated toluenes,	
	ring-chlorinated toluenes,	
	benzoyl chlorides, and	
	compounds with mixtures of	
	these functional groups.	
K151	Wastewater treatment sludges,	(T)
	excluding neutralization and	()
	biological sludges, generated	
	during the treatment of	
	wastewaters from the	
	production of alpha- (or	
	methyl-) chlorinated toluenes,	
	ring-chlorinated toluenes,	
	benzoyl chlorides, and	
	compounds with mixtures of	
	these functional groups.	
K156	Organic waste (including	(T)
	heavy ends, still bottoms, light	` /
	ends, spent solvents, filtrates,	
	and decantates) from the	
	production of carbamates and	
	carbamoyl oximes. (This	
	listing does not apply to wastes	
	generated from the	
	manufacture of 3-iodo-2-	
	propynyl n-butylcarbamate.).	
K157	Wastewaters (including	(T)
	scrubber waters, condenser	
	waters, washwaters, and	
	separation waters) from the	
	-	
	production of carbamates and	
	carbamoyl oximes. (This	
	listing does not apply to wastes	
	generated from the	
	manufacture of 3-iodo-2-	
	propynyl n-butylcarbamate.).	
V150		(T)
K158	Bag house dusts and	(T)
	filter/separation solids from the	
	production of carbamates and	
	carbamoyl oximes. (This	
	listing does not apply to wastes	
	generated from the	
	manufacture of 3-iodo-2-	
	propynyl n-butylcarbamate.).	
K159	Organics from the treatment of	(T)
	thiocarbamate wastes	
K161	Purification solids (including	(R, T)
	filtration, evaporation, and	(, -)
	centrifugation solids), bag	
	house dust and floor sweepings	
	from the production of	
	dithiocarbamate acids and their	
	salts. (This listing does not	
	include K125 or K126.).	
	meruuc K123 01 K120.).	

	Wastewater treatment sludges from the production of ethylene dichloride or vinyl	(T)
	curyiche dichioride or vinyi	
l '	chloride monomer (including	
	sludges that result from	
	commingled ethylene	
	dichloride or vinyl chloride	
	monomer wastewater and other	
	wastewater), unless the sludges	
	meet the following conditions:	
	(i) they are disposed of in a	
	subtitle C or non-hazardous	
	landfill licensed or permitted	
	by the state or federal	
	government; (ii) they are not	
	otherwise placed on the land	
	prior to final disposal; and (iii)	
	the generator maintains	
	documentation demonstrating	
	that the waste was either	
	disposed of in an on-site	
	landfill or consigned to a	
	transporter or disposal facility	
	that provided a written	
	commitment to dispose of the	
	waste in an off-site landfill.	
	Respondents in any action	
	brought to enforce the	
	requirements of subtitle C	
	must, upon a showing by the	
	government that the respondent managed wastewater treatment	
	sludges from the production of	
	vinyl chloride monomer or	
	ethylene dichloride,	
	demonstrate that they meet the	
	terms of the exclusion set forth	
	above. In doing so, they must	
	provide appropriate	
	documentation (e.g., contracts	
	between the generator and the	
	landfill owner/operator,	
	invoices documenting delivery	
	of waste to landfill, etc.) that	
	the terms of the exclusion were	
	met. (6/02)	
	Wastewater treatment sludges	(T)
	from the production of vinyl	
	chloride monomer using	
	mercuric chloride catalyst in an	
	acetylene-based process. (6/02)	
Inorganic		
chemicals:	D : : :: :	(TD)
	Brine purification muds from	(T)
	the mercury cell process in	
	chlorine production, where	
	separately prepurified brine is	
	not used.	(T)
	Chlorinated hydrocarbon waste from the purification step of	(T)
	the diaphragm cell process	
	using graphite anodes in	
	chlorine production.	
		(TP)
	Wastewater treatment sludge	()
K106	Wastewater treatment sludge from the mercury cell process	(T)
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.	(1)

K176	Baghouse filters from the	(E)
K170	l =	(E)
	production of antimony oxide,	
	including filters from the	
	production of intermediates	
	(e.g., antimony metal or crude	
	antimony oxide). (6/03)	
K177	Slag from the production of	(T)
	antimony oxide that is	
	speculatively accumulated or	
	disposed, including slag from	
	the production of intermediates	
	(e.g., antimony metal or crude	
	antimony oxide). (6/03)	
K178	Residues from manufacturing	(T)
11170	and manufacturing site storage	(1)
	of ferric chloride from acids	
	formed during the production	
	of titanium dioxide using the	
	chloride-ilmenite process.	
	(6/03)	
Pesticides:		
K031	By-product salts generated in	(T)
	the production of MSMA and	
	cacodylic acid.	
K032	Wastewater treatment sludge	(T)
	from the production of	
	chlordane.	
K033	Wastewater and scrub water	(T)
11033	from the chlorination of	(1)
	cyclopentadiene in the	
	production of chlordane.	
K034	Filter solids from the filtration	(T)
K034		(1)
	of hexachlorocyclopentadiene	
17025	in the production of chlordane.	(TD)
K035	Wastewater treatment sludges	(T)
	generated in the production of	
	creosote.	
K036	Still bottoms from toluene	(T)
	reclamation distillation in the	
	production of disulfoton.	
K037	Wastewater treatment sludges	(T)
	from the production of	
	disulfoton.	
K038	Wastewater from the washing	(T)
	and stripping of phorate	
	production.	
K039	Filter cake from the filtration	(T)
	of diethylphosphorodithioic	,
	acid in the production of	
	phorate.	
K040	Wastewater treatment sludge	(T)
110.10	from the production of phorate.	(-)
K041	Wastewater treatment sludge	(T)
KOTI	from the production of	(1)
	toxaphene.	
K042		(T)
K042	Heavy ends or distillation residues from the distillation of	(1)
	tetrachlorobenzene in the	
	production of 2,4,5-T.	
K043	2,6-Dichlorophenol waste from	(T)
	the production of 2,4-D.	
K097	Vacuum stripper discharge	(T)
	from the chlordane chlorinator	
	in the production of chlordane.	
K098	Untreated process wastewater	(T)
	from the production of	
	toxaphene.	
K099	Untreated wastewater from the	(T)
	production of 2,4-D.	, ,
	, , , , , , , , , , , , , , , , , , , ,	i

****		(m)
K123	Process wastewater (including	(T)
	supernates, filtrates, and washwaters) from the	
	production of	
	ethylenebisdithiocarbamic acid	
	and its salt.	
K124	Reactor vent scrubber water	(C, T)
	from the production of	(-, ,
	ethylenebisdithiocarb amic	
	acid and its salts.	
K125	Filtration, evaporation, and	(T)
	centrifugation solids from the	
	production of	
	ethylenebisdithiocarbamic acid and its salts.	
K126	Baghouse dust and floor	(T)
K120	sweepings in milling and	(1)
	packaging operations from the	
	production or formulation of	
	ethylenebisdithiocarbamic acid	
	and its salts.	
K131	Wastewater from the reactor	(C, T)
	and spent sulfuric acid from	
	the acid dryer from the	
K132	production of methyl bromide.	(T)
N132	Spent absorbent and wastewater separator solids	(T)
	from the production of methyl	
	bromide.	
Explosives:	oromide.	
K044	Wastewater treatment sludges	(R)
	from the manufacturing and	
	processing of explosives.	
K045	Spent carbon from the	(R)
	treatment of wastewater	
770.44	containing explosives.	(m)
K046	Wastewater treatment sludges	(T)
	from the manufacturing,	
	formulation and loading of lead-based initiating	
	compounds.	
K047	Pink/red water from TNT	(R)
	operations.	` ′
	operations.	
Petroleum refining:	•	
Petroleum refining: K048	Dissolved air flotation (DAF)	(T)
	Dissolved air flotation (DAF) float from the petroleum	(T)
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.	
	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from	(T)
K048	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining	
K048	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry.	(T)
K048	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle	
K048	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the	(T)
K048 K049 K050	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry.	(T) (T)
K048	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the	(T)
K048 K049 K050	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry.	(T) (T)
K048 K049 K050	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry.	(T) (T)
K048 K049 K050 K051 K052	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry.	(T) (T) (T)
K048 K049 K050	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank	(T) (T)
K048 K049 K050 K051 K052	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank sediment from petroleum	(T) (T) (T)
K048 K049 K050 K051 K052	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank	(T) (T) (T)
K048 K049 K050 K051 K052	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank sediment from petroleum refining operations (8/00)	(T) (T) (T) (T)
K048 K049 K050 K051 K052 K169	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank sediment from petroleum	(T) (T) (T)
K048 K049 K050 K051 K052 K169	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank sediment from petroleum refining operations (8/00) Clarified slurry oil tank	(T) (T) (T) (T)
K048 K049 K050 K051 K052 K169	Dissolved air flotation (DAF) float from the petroleum refining industry. Slop oil emulsion solids from the petroleum refining industry. Heat exchanger bundle cleaning sludge from the petroleum refining industry. API separator sludge from the petroleum refining industry. Tank bottoms (leaded) from the petroleum refining industry. Crude oil storage tank sediment from petroleum refining operations (8/00) Clarified slurry oil tank sediment and/or in-line	(T) (T) (T) (T)

	32 Hazardous wastes from specif	ic sources
K171	Spent Hydrotreating catalyst	(I, T)
	from petroleum refining	
	operations, including guard	
	beds used to desulfurize feeds	
	to other catalytic reactors (this	
	listing does not include inert	
	support media)	
K172	Spent Hydrorefining catalyst	(I, T)
	from petroleum refining	(-, -,
	operations, including guard	
	beds used to desulfurize feeds	
	to other catalytic reactors (this	
	listing does not include inert	
	support media.) (8/00)	
Iron and Steel	support median, (c, cc)	
	E : : (11 //11	(TP)
K061	Emission control dust/sludge	(T)
	from the primary p roduction of	
	steel in electric furnaces.	
K062	Spent pickle liquor generated	(C, T)
11002	by steel finishing operations of	(0, 1)
	facilities within the iron and	
	steel industry (SIC Codes 331	
	and 332).	
Primary aluminum:		
K088	Spent potliners from primary	(T)
11000	aluminum reduction.	(1)
C 1 1 1	arummum reduction.	
Secondary lead:		
K069	Emission control dust/sludge	(T)
	from secondary lead smelting.	
	(Note: This listing is stayed	
	administratively for sludge	
	generated from secondary acid	
	scrubber systems. The stay will	
	remain in effect until further	
	administrative action is taken.	
	If EPA takes further action	
	effecting this stay, EPA will	
	publish a notice of the action in	
	the Federal Register).	
K100	Waste leaching solution from	(T)
K100		(1)
	acid leaching of emission	
	control dust/sludge from	
	secondary lead smelting.	
Veterinary		
pharmaceuticals:		
K084		
	Wasternates treatment slinder-	(T)
12004	Wastewater treatment sludges	(T)
KU04	generated during the	(T)
KU04	generated during the production of veterinary	(T)
KU04	generated during the production of veterinary	(T)
NU04	generated during the production of veterinary pharmaceuticals from arsenic	(T)
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from	(T)
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based	,
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production	
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals	
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals	,
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic	
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of	,
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic	(T)
K101	generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds. Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic	(T)

261.33 Discarded commercial chemical products, off-specification species, container residues, and spill residues thereof (11/90)

	ommerciai encimeai produces, o	r specific
K086	Solvent washes and sludges,	(T)
	caustic washes and sludges, or	
	water washes and sludges from	
	cleaning tubs and equipment	
	used in the formulation of ink	
	from pigments, driers, soaps,	
	and stabilizers containing	
	chromium and lead.	
Coking:		
K060	Ammonia still lime sludge	(T)
	from coking operations.	
K087	Decanter tank tar sludge from	(T)
	coking operations(6/95).	
K141	Process residues from the	(T)
	recovery of coal tar, including,	
	but not limited to, collecting	
	sump residues from the	
	production of coke from coal	
	or the recovery of coke by-	
	products produced from coal.	
	This listing does not include	
	K087 (decanter tank tar	
	sludges from coking	
	operations).	
K142	Tar storage tank residues from	(T)
	the production of coke from	
	coal or from the recovery of	
	coke by-products produced	
	from coal.	

261.33 Discarded commercial chemical products, off-specification species, container residues, and spill residues thereof (11/90)

The following materials or items are hazardous wastes if and when they are discarded or intended to be discarded as described in section 261.2(a)(2)(i), when they are mixed with waste oil or used oil or other material and applied to the land for dust suppression or road treatment, when they are otherwise applied to the land in lieu of their original intended use or when they are contained in products that are applied to the land in lieu of their original intended use, or when, in lieu of their original intended use, they are produced for use as (or as a component of) a fuel, distributed for use as a fuel, or burned as a fuel.

- (a) Any commercial chemical product, or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section.
- (b) Any off-specification commercial chemical product or manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section. (12/92)
- (c) Any residue remaining in a container or in an inner liner removed from a container that has held any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, unless the

	esidues, and spill residues there	01 (11/70)
K143	Process residues from the	(T)
	recovery of light oil, including,	
	but not limited to, those	
	generated in stills, decanters,	
	and wash oil recovery units	
	from the recovery of coke by-	
	products produced from coal.	
K144	Wastewater sump residues	(T)
	from light oil refining,	
	including, but not limited to,	
	intercepting or contamination	
	sump sludges from the	
	recovery of coke by-products	
	produced from coal.	
K145	Residues from naphthalene	(T)
	collection and recovery	
	operations from the recovery of	
	coke by-products produced	
	from coal.	
K147	Tar storage tank residues from	(T)
	coal tar refining.	
K148	Residues from coal tar	(T)
	distillation, including but not	
	limited to, still bottoms.	
Organotins:		
K900	Waste residues from the	(T)
	manufacture of organotin	
	compounds which contain tri-	
	(organo) substituted tin	
	compounds, to include	
	tributyltin and its analogs.	
	(5/02)	

container is empty as defined in Section 261.7(b). (12/92).

[Comment: Unless the residue is being beneficially used or reused, or legitimately recycled or reclaimed; or being accumulated, stored, transported or treated prior to such use, reuse, recycling or reclamation, the Department considers the residue to be intended for discard, and thus, a hazardous waste. An example of a legitimate reuse of the residue would be where the residue remains in the container and the container is used to hold the same commercial chemical product or manufacturing chemical intermediate it previously held. An example of the discard of the residue would be where the drum is sent to a drum reconditioner who reconditions the drum but discards the residue (12/92).]

(d) Any residue or contaminated soil, water or other debris resulting from the cleanup of a spill into or on any land or water of any commercial chemical product or manufacturing chemical intermediate having the generic name listed in paragraph (e) or (f) of this section, or any residue or contaminated soil, water or other debris resulting from the cleanup of a spill, into or on any land or water, of any offspecification chemical product and manufacturing chemical intermediate which, if it met specifications, would have the generic name listed in paragraph (e) or (f) of this section.

[Comment: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in . . . " refers to a

chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in paragraph (e) or (f). Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in paragraph (e) or (f), such waste will be listed in either sections 261.31 or 261.32 or will be identified as a hazardous waste by the characteristics set forth in subpart C of this part. (12/92)].

(e) The commercial chemical products, manufacturing chemical intermediates or off-specification commercial chemical products or manufacturing chemical intermediates referred to in paragraphs (a) through (d) of this section, are identified as acute hazardous wastes (H) and are subject to the small quantity exclusion defined in section 261.5(e).

[Comment: For the convenience of the regulated community the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), and R (Reactivity). Absence of a letter indicates that the compound only is listed for acute toxicity (12/92, 12/93).]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

	Chemical	261.33(e) Lists of Acute Hazardous Wastes
HW#	abstracts#	Substance (11/90, 12/92, 5/96)
P023	107-20-0	Acetaldehyde, chloro-
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-
P057	640-19-7	Acetamide, 2-fluoro-
P058	62-74-8	Acetic acid, fluoro-, sodium salt
P002	591-08-2	1-Acetyl-2-thiourea
P003	107-02-8	Acrolein
P070	116-06-3	Aldicarb
P203	1646-88-4	Aldicarb sulfone.(5/96)
P004	309-00-2	Aldrin
P005	107-18-6	Allyl alcohol
P006	20859-73-8	Aluminum phosphide (R,T)
P007	2763-96-4	5-(Aminomethyl)-3-isoxazolol
P008	504-24-5	4-Aminopyridine
P009	131-74-8	Ammonium picrate (R)
P119	7803-55-6	Ammonium vanadate
P099	506-61-6	Argentate(1-), bis(cyano-C-), potassium
P010	7778-39-4	Arsenic acid H ₃ AsO ₄
P012	1327-53-3	Arsenic oxide As ₂ O ₃
P011	1303-28-2	Arsenic oxide As ₂ O ₅
P011	1303-28-2	Arsenic pentoxide
P012	1327-53-3	Arsenic trioxide
P038	692-42-2	Arsine, diethyl-
P036	696-28-6	Arsonous dichloride, phenyl-
P054	151-56-4	Aziridine
P067	75-55-8	Aziridine, 2-methyl-
P013	542-62-1	Barium cyanide
P024	106-47-8	Benzenamine, 4-chloro-
P077	100-01-6	Benzenamine, 4-nitro-
P028	100-44-7	Benzene, (chloromethyl)
P042	51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl-], (R)
P046	122-09-8	Benzeneethanamine, alpha, alpha-dimethyl-
P014	108-98-5	Benzenethiol
P127	1563-66-2	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.(5/96)
P188	57-64-7	Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1, 3a,8-trimethylpyrrolo[2,3-
		blindol-5-yl methylcarbamate ester (1:1). (5/96)
P001	¹ 81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy -3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations
		greater than 0.3%
P028	100-44-7	Benzyl chloride
P015	7440-41-7	Beryllium powder
P017	598-31-2	Bromoacetone
P018	357-57-3	Brucine
P045	39196-18-4	2-Butanone, 3,3-dimethyl-1-(methylthio)- O-[(methylamino)carbonyl]oxime
P021	592-01-8	Calcium cyanide
P021	592-01-8	Calcium cyanide Ca(CN) ₂

	Chemical	261.33(e) Lists of Acute Hazardous Wastes
HW#	abstracts#	Substance (11/90, 12/92, 5/96)
P022	75-15-0	Carbon disulfide
P189	55285-14-8	Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2-dimethyl- 7-benzofuranyl ester (5/96)
P191	644-64-4	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester. (5/96)
P192	119-38-0	Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester.(5/96)
P190	1129-41-5	Carbamic acid, methyl-, 3-methylphenyl ester. (5/96)
P127	1563-66-2	Carbofuran. (5/96)
P095	75-44-5	Carbonic dichloride
P189	55285-14-8	Carbosulfan. (5/96)
P023	107-20-0	Chloroacetaldehyde
P024	106-47-8	p-Chloroaniline
P026	5344-82-1	1-(o-Chlorophenyl)thiourea
P027	542-76-7	3-Chloropropionitrile
P029	544-92-3	Copper cyanide
P029	544-92-3	Copper cyanide Cu(CN)
P202	64-00-6	m-Cumenyl methylcarbamate.(5/96)
P030	450 10 5	Cyanides (soluble cyanide salts), not otherwise specified
P031	460-19-5	Cyanogen
P033	506-77-4	Cyanogen chloride
P033	506-77-4	Cyanogen chloride (CN)Cl
P034	131-89-5	2-Cyclohexyl-4,6-dinitrophenol
P016	542-88-1	Dichloromethyl ether
P036 P037	696-28-6	Dichlorophenylarsine Dioldrin
P037 P038	60-57-1 692-42-2	Dieldrin Diethylarsine
P038	311-45-5	Diethyl-p-nitrophenyl phosphate
P040	297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate
P040 P043	55-91-4	Diisopropylfluorophosphate (DFP)
P004	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-, hexahydro-
F004	309-00-2	(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)-
P060	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahydro,
1 000	403-73-0	(1alpha,4alpha,4abeta,5beta,8beta,8abeta)-
P037	60-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6, 6a,7,7a-octahydro-
1037	00-37-1	,(1aalpha,2beta,2aalpha,3beta,6beta,6aalpha, 7beta,7aalpha)-
P051	172-20-8	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6, 6a,7,7a-octahydro-
1001	72 20 0	,(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta, 7beta,7aalpha)-, & metabolites
P044	60-51-5	Dimethoate
P191	644-64-4	Dimetilan.(5/96)
P046	122-09-8	alpha,alpha-Dimethylphenethylamine
P047	¹ 534-52-1	4,6-Dinitro-o-cresol, & salts
P048	51-28-5	2,4-Dinitrophenol
P020	88-85-7	Dinoseb
P085	152-16-9	Diphosphoramide, octamethyl-
P111	107-49-3	Diphosphoric acid, tetraethyl ester
P039	298-04-4	Disulfoton
P049	541-53-7	Dithiobiuret
P185	26419-73-8	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)- carbonyl]oxime. (5/96)
P050	115-29-7	Endosulfan
P088	145-73-3	Endothall
P051	72-20-8	Endrin
P051	72-20-8	Endrin, & metabolites
P042	51-43-4	Epinephrine
P031	460-19-5	Ethanedinitrile
P194	23135-22-0	Ethanimidothioc acid, 2- (dimethylamino)-N-[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester.(5/9
P066	16752-77-5	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester
P101	107-12-0	Ethyl cyanide
P054	151-56-4	Ethyleneimine
P097	52-85-7	Famphur
P056	7782-41-4	Fluorine
P057	640-19-7	Fluoroacetamide
P198	23422-53-9	Formetanate hydrochloride. (5/96)
P197	17702-57-7	Formparanate. (5/96)
P058	62-74-8	Fluoroacetic acid, sodium salt
P065	628-86-4	Fulminic acid, mercury(2+) salt (R,T)
P059	76-44-8	Heptachlor
P062	757-58-4	Hexaethyl tetraphosphate
P116	79-19-6	Hydrazinecarbothioamide

	Chemical	261.33(e) Lists of Acute Hazardous Wastes
HW#	abstracts#	Substance (11/90, 12/92, 5/96)
P068	60-34-4	Hydrazine, methyl-
P063	74-90-8	Hydrocyanic acid
P063	74-90-8	Hydrogen cyanide
P096	7803-51-2	Hydrogen phosphide
P060	465-73-6	Isodrin
P192	119-38-0	Isolan. (5/96)
P202	64-00-6	3-Isopropylphenyl N-methylcarbamate.(5/96)
P007	2763-96-4	3(2H)-Isoxazolone, 5-(aminomethyl)-
P196	15339-36-3	Manganese, bis(dimethylcarbamodithioato-S,S')-, (5/96)
P196	15339-36-3	Manganese dimethyldithiocarbamate. (5/96)
P092	62-38-4	Mercury, (acetato-O)phenyl-
P065	628-86-4	Mercury fulminate (R,T)
P082	62-75-9	Methanamine, N-methyl-N-nitroso-
P064	624-83-9	Methane, isocyanato-
P016	542-88-1	Methane, oxybis[chloro-
P112	509-14-8	Methane, tetranitro- (R)
P198	23422-53-9	Methanimidamide, N,N-dimethyl-N'-[3-[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride
P197	17702-57-7	(5/96) Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)carbonyl] oxy]phenyl]- (5/96)
P197 P199	2032-65-7	Methocarb. (5/96) Methocarb. (5/96)
P199 P118	75-70-7	Methanethiol, trichloro-
P050	115-29-7	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6, 9,9a-hexahydro-,3-oxide
P059	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-
P066	16752-77-5	Methomyl
P068	60-34-4	Methyl hydrazine
P064	624-83-9	Methyl isocyanate
P069	75-86-5	2-Methyllactonitrile
P071	298-00-0	Methyl parathion
P190	1129-41-5	Metolcarb. (5/96)
P128	315-18-4	Mexacarbate. (4/96)
P072	86-88-4	alpha-Naphthylthiourea
P073	13463-39-3	Nickel carbonyl
P073	13463-39-3	Nickel carbonyl Ni(CO) ₄ , (T-4)-
P074	557-19-7	Nickel cyanide
P074	557-19-7	Nickel cyanide Ni(CN) ₂
P075	¹ 54-11-5	Nicotine, & salts
P076	10102-43-9	Nitric oxide
P077	100-01-6	p-Nitroaniline
P078	10102-44-0	Nitrogen dioxide
P076	10102-43-9	Nitrogen oxide NO
P078	10102-44-0	Nitrogen oxide NO ₂
P081	55-63-0	Nitroglycerine (R)
P082	62-75-9	N-Nitrosodimethylamine
P084	4549-40-0	N-Nitrosomethylvinylamine
P085	152-16-9	Octamethylpyrophosphoramide
P087	20816-12-0	Osmium oxide OsO ₄ , (T-4)-
P087	20816-12-0	Osmium tetroxide
P088	145-73-3	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P194	23135-22-0	Oxamyl. (5/96)
P089	56-38-2	Parathion
P034	131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-
P048	51-28-5	Phenol, 2,4-dinitro
P047	¹ 534-52-1	Phenol, 2-methyl-4,6-dinitro, & salts
P020	88-85-7	Phenol, 2-(1-methylpropyl)4,6-dinitro-
P009 P128	131-74-8 315-18-4	Phenol, 2,4,6-trinitro-, ammonium salt (R) Phenol, 4-(dimethylamino)-3,5-dimethyl-,methylcarbamate (ester). (5/96)
P128 P199	2032-65-7	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate (5/96)
P199 P202	64-00-6	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate (5/96) Phenol, 3-(1-methylethyl)-, methyl carbamate. (5/96)
P202 P201	2631-37-0	Phenol, 3-(1-methylethyl)-, methyl carbamate. (5/96) Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate. (5/96)
P201 P092	62-38-4	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate. (5/96) Phenylmercury acetate
P092 P093	103-85-5	Phenylthiourea
P093 P094	298-02-2	Phorate
P095	75-44-5	Phosgene
P093 P096	7803-51-2	Phosphine
P090 P041	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl ester
	JII TJ-J	I hoophone ucid, diedity i + muophenyi estei

	Chemical	261.33(e) Lists of Acute Hazardous Wastes
HW#	abstracts#	Substance (11/90, 12/92, 5/96)
P094	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl]ester
P044	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
P043	55-91-4	Phosphorofluoridic acid, bis(1-methylethyl) ester
P089	56-38-2	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester
P040	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
P097	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,Odimethyl ester
P071	298-00-0	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
P204	57-47-6	Physostigmine. (5/96)
P188	57-64-7	Physostigmine salicylate. (5/96)
P110	78-00-2	Plumbane, tetraethyl-
P098	151-50-8	Potassium cyanide
P098	151-50-8	Potassium cyanide K (CN)
P099	506-61-6	Potassium silver cyanide
P201	2631-37-0	Promecarb (5/96)
P203	1646-88-4	Propanal,2-methyl-2-(methyl-sulfonyl)-,O-[(methylamino)carbonyl] oxime. (5/96)
P070	116-06-3	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime
P101	107-12-0	Propanenitrile
P027	542-76-7	Propanenitrile, 3-chloro-
P069	75-86-5	Propanenitrile, 2-hydroxy -2-methyl
P081	55-63-0	1,2,3-Propanetriol, trinitrate (R)
P017	598-31-2	2-Propanone, 1-bromo-
P102	107-19-7	Propargyl alcohol
P003	107-02-8	2-Propenal
P005	107-18-6	2-Propen-1-ol
P067	75-55-8	1,2 Propylenimine
P102	107-19-7	2-Propyn-1-ol
P008	504-24-5	4-Pyridinamine
P075	¹ 54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl),- (S)-, & salts
P204	57-47-6	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-(5/96)
P114	12039-52-0	Selenious acid, dithallium(1+) salt
P103	630-10-4	Selenourea
P104	506-64-9	Silver cyanide
P104	506-64-9	Silver cyanide Ag (CN)
P105	26628-22-8	Sodium azide
P106	143-33-9	Sodium cyanide
P106	143-33-9	Sodium cyanide Na (CN)
P108	¹ 57-24-9	Strychnidin-10-one, & salts
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-
P108	¹ 57-24-9	Strychnine, & salts
P115	7446-18-6	Sulfuric acid, dithallium(1+) salt
P109	3689-24-5	Tetraethyldithiopyrophosphate
P110	78-00-2	Tetraethyl lead
P111	107-49-3	Tetraethyl pyrophosphate
P112	509-14-8	Tetranitromethane (R)
P062	757-58-4	Tetraphosphoric acid, hexaethyl ester
P113	1314-32-5	Thallic oxide
P113	1314-32-5	Thallium oxide Tl ₂ O ₃
P114	12039-52-0	Thallium(I) selenite
P115	7446-18-6	Thallium(I) sulfate
P109	3689-24-5	Thiodiphosphoric acid, tetraethyl ester
P045	39196-18-4	Thiofanox
P049	541-53-7	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH
P014	108-98-5	Thiophenol
P116	79-19-6	Thiosemicarbazide
P026	5344-82-1	Thiourea, (2-chlorophenyl)-
P072	86-88-4	Thiourea, 1-naphthalenyl-
P093	103-85-5	Thiourea, phenyl-
P185	26419-73-8	Tirpate. (5/96)
P123	8001-35-2	Toxaphene
P118	75-70-7	Trichloromethanethiol
P119	7803-55-6	Vanadic acid, ammonium salt
P120	1314-62-1	Vanadium oxide V ₂ O ₅
	1 1 2 1 4 (2 1	1.1/
P120 P084	1314-62-1 4549-40-0	Vanadium pentoxide Vinylamine, N-methyl-N-nitroso-

	Chemical	261.33(e) Lists of Acute Hazardous Wastes
HW #	abstracts#	Substance (11/90, 12/92, 5/96)
P001	¹ 81-81-2	Warfarin, & salts, when present at concentrations greater than 0.3%
P205	137-30-4	Zinc, bis(dimethylcarbamodithioato-S,S')-, (5/96)
P121	557-21-1	Zinc cyanide
P121	557-21-1	Zinc cyanide Zn(CN) ₂
P122	1314-84-7	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10% (R,T)
P205	137-30-4	Ziram. (5/96)

FOOTNOTE: ¹CAS Number given for parent compound only.

(f) The commercial chemical products, manufacturing chemical intermediates, or off-specification commercial chemical products referred to in paragraphs (a) through (d) of this section, are identified as toxic wastes (T), unless otherwise designated and are subject to the small quantity generator exclusion defined in Section 261.5 (a) and (g). (5/96)

[Comment: For the convenience of the regulated community, the primary hazardous properties of these materials have been indicated by the letters T (Toxicity), R (Reactivity), I (Ignitability) and C (Corrosivity). Absence of a letter indicates that the compound is only listed for toxicity (12/92; 5/96).]

These wastes and their corresponding EPA Hazardous Waste Numbers are:

HW#	CAS#	ppart D Toxic Hazardous Wastes Substance (11/90; 12/92; 12/93; 5/96, 9/98)			
U394	30558-43-1	A2213 (5/96)			
U001	75-07-0	Acetaldehyde (I)			
U034	75-87-6	Acetaldehyde, trichloro-			
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-			
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-			
U240	¹ 94-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters			
U112	141-78-6	Acetic acid ethyl ester (I)			
U144	301-04-2	Acetic acid, lead(2+) salt			
U214	563-68-8	Acetic acid, thallium(1+) salt			
see F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-			
U002	67-64-1	Acetone (I)			
U003	75-05-8	Acetonitrile (I,T)			
U004	98-86-2	Acetophenone			
U005	53-96-3	2-Acetylaminofluorene			
U006	75-36-5	Acetyl chloride (C.R.T)			
U007	79-06-1	Acrylamide Acrylamide			
U008	79-10-7	Acrylic acid (I)			
U009	107-13-1	Acrylonitrile			
U011	61-82-5	Amitrole			
U012	62-53-3	Aniline (I,T)			
U136	75-60-5	Arsinic acid, dimethyl-			
U014	492-80-8	Auramine			
U015	115-02-6	Azaserine			
U010	50-07-7	Azirino[2',3':3,4]pyrrolo(1,2-a)indole-4,7- dione, 6-amino-8-[[(aminocarbonyl)oxy]methyl]-			
0010	30 07 7	1,1a,2,8,8a,8b- hexahydro-8a-methoxy -5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-			
U280	101-27-9	Barban, (5/96)			
U278	22781-23-3	Bendiocarb. (5/96)			
U364	22961-82-6	Bendiocarb phenol. (5/96)			
U271	17804-35-2	Benomyl. (5/96)			
U157	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-			
U016	225-51-4	Benz[c]acridine			
U017	98-87-3	Benzal chloride			
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2- propynyl)-			
U018	56-55-3	Benz[a]anthracene			
U094	57-97-6	Benz[a]anthracene, 7,12-dimethyl-			
U012	62-53-3	Benzenamine (I,T)			
U014	492-80-8	Benzenamine, 4,4'-carbonimidoylbis[N,N- dimethyl-			
U049	3165-93-3	Benzenamine, 4-chloro-2-methyl-, hydrochloride			
U093	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-			
U328	95-53-4	Benzenamine, 2-methyl-			
U353	106-49-0	Benzenamine, 4-methyl-			
U158	101-14-4	Benzenamine, 4,4'-methylenebis[2-chloro-			
U222	636-21-5	Benzenamine, 2-methyl-, hydrochloride			

		ppart D Toxic Hazardous Wastes
HW#	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U181	99-55-8	Benzenamine, 2-methyl-5-nitro-
U019	71-43-2	Benzene (I,T)
U038	510-15-6	Benzeneacetic acid, 4-chloro-alpha-(4- chlorophenyl)-alpha-hydroxy-, ethyl ester
U030	101-55-3	Benzene, 1-bromo-4-phenoxy-
U035	305-03-3	Benzenebutanoic acid, 4-[bis(2- chloroethyl)amino]-
U037	108-90-7	Benzene, chloro-
U221 U028	25376-45-8	Benzenediamine, ar-methyl- 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
	117-81-7	
U069 U088	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester 1,2-Benzenedicarboxylic acid, diethyl ester
U102	84-66-2 131-11-3	1,2-Benzenedicarboxylic acid, dietnyl ester 1,2-Benzenedicarboxylic acid, dimethyl ester
U102	117-84-0	1,2-Benzenedicarboxylic acid, dimethyl ester 1,2-Benzenedicarboxylic acid, dioctyl ester
U070	95-50-1	Benzene, 1,2-dichloro-
U071	541-73-1	Benzene, 1,3-dichloro-
U072	106-46-7	Benzene, 1,4-dichloro-
U060	72-54-8	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-
U017	98-87-3	Benzene, (dichloromethyl)-
U223	26471-62-5	Benzene, 1,3-diisocyanatomethyl- (R,T)
U239	1330-20-7	Benzene, dimethyl- (I,T)
U201	108-46-3	1.3-Benzenediol
U127	118-74-1	Benzene, hexachloro-
U056	110-82-7	Benzene, hexahydro- (I)
U220	108-88-3	Benzene, methyl-
U105	121-14-2	Benzene, 1-methyl-2,4-dinitro-
U106	606-20-2	Benzene, 2-methyl-1,3-dinitro-
U055	98-82-8	Benzene, (1-methylethyl)- (I)
U169	98-95-3	Benzene, nitro-
U183	608-93-5	Benzene, pentachloro-
U185	82-68-8	Benzene, pentachloronitro-
U020	98-09-9	Benzenesulfonic acid chloride (C,R)
U020	98-09-9	Benzenesulfonyl chloride (C,R)
U207	95-94-3	Benzene, 1,2,4,5-tetrachloro-
U061	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- chloro-
U247	72-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4- methoxy -
U023	98-07-7	Benzene, (trichloromethyl)-
U234	99-35-4	Benzene, 1,3,5-trinitro-
U021	92-87-5	Benzidine
U202	¹ 81-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U278	22781-23-3	1,3Benzodioxol-4ol, 2,2dimethyl, methyl carbamate. (5/96)
U364	22961-82-6	1,3Benzodioxol4ol, 2,2dimethyl,
U203	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-
U141	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-
U367	1563-38-8	7Benzofuranol, 2,3-dihydro2,2-dimethyl (5/96)
U090	94-58-6	1,3-Benzodioxole, 5-propyl-
U064	189-55-9	Benzo[rst]pentaphene
U248	¹ 81-81-2	2H-1-Benzopyran-2-one, 4-hydroxy -3-(3-oxo-1-phenyl- butyl)-, & salts, when present at
11022	50.22.0	concentrations of 0.3% or less
U022	50-32-8	Benzo[a]pyrene
U197	106-51-4	p-Benzoquinone
U023	98-07-7	Benzotrichloride (C,R,T)
U085	1464-53-5	2,2'-Bioxirane
U021 U073	92-87-5 91-94-1	[1,1'-Biphenyl]-4,4'-diamine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-
U091	119-90-4	
U091 U095	119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy - [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-
U225	75-25-2	Bromoform
U030		
U128	101-55-3 87-68-3	4-Bromophenyl phenyl ether 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
U172	924-16-3	1-Butanamine, N-butyl-N-nitroso-
U031	71-36-3	1-Butanol (I)
U159	78-93-3	2-Butanone (I,T)
U160	1338-23-4	2-Butanone (I,1) 2-Butanone, peroxide (R,T)
U053	4170-30-3	2-Butanone, peroxide (R,1) 2-Butenal
U074	764-41-0	2-Butene, 1,4-dichloro- (I,T)
00/4	/ U+-41-U	
U143	303-34-4	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1- oxobutoxy]methyl]-

261.33(f)	Lists of Sul	bpart D Toxic Hazardous Wastes 261.33(f) Lists of Subpart D Toxic Hazardous Wastes
HW #	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U031	71-36-3	n-Butyl alcohol (I)
U136	75-60-5	Cacodylic acid
U032	13765-19-0	Calcium chromate
U372	10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl, methyl
U271	17804-35-2	Carbamic acid, [1-[(butylamino)carbonyl]-1H- benzimidazol-2-yl]-, methyl ester. (5/96)
U280	101-27-9	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2- butynyl ester. (5/96)
U373	122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester.
U409	23564-05-8	Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester. (5/96)
U238	51-79-6	Carbamic acid, ethyl ester
U178	615-53-2	Carbamic acid, methylnitroso-, ethyl ester
U097	79-44-7	Carbamic chloride, dimethyl-
U114	¹ 111-54-6	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters
U062	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester
U389	2303-17-5	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester. (5/96)
U387	52888-80-9	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester. (5/96)
U279	63-25-2	Carbaryl. (5/96)
U372	10605-21-7	Carbendazim. (5/96)
U367	1563-38-8	Carbofuran phenol. (5/96)
U215	6533-73-9	Carbonic acid, dithallium(1+) salt
U033 U156	353-50-4 79-22-1	Carbonic difluoride Carbonochloridic acid, methyl ester (I, T)
U033	79-22-1 353-50-4	Carbon oxyfluoride (R, T)
U211	56-23-5	Carbon oxylluoride (R, 1) Carbon tetrachloride
U034	75-87-6	Carbon tetrachionde
U035	305-03-3	Chlorambucil
U036	57-74-9	Chlordane, alpha & gamma isomers
U026	494-03-1	Chlornaphazin
U037	108-90-7	Chlorobenzene
U038	510-15-6	Chlorobenzilate
U039	59-50-7	p-Chloro-m-cresol
U042	110-75-8	2-Chloroethyl vinyl ether
U044	67-66-3	Chloroform
U046	107-30-2	Chloromethyl methyl ether
U047	91-58-7	beta-Chloronaphthalene
U048	95-57-8	o-Chlorophenol
U049	3165-93-3	4-Chloro-o-toluidine, hydrochloride
U032	13765-19-0	Chromic acid H ₂ CrO ₄ , calcium salt
U050	218-01-9	Chrysene
U051		Creosote
U052	1319-77-3	Cresol (Cresylic acid)
U053	4170-30-3	Crotonaldehyde
U055	98-82-8	Cumene (I)
U246	506-68-3	Cyanogen bromide (CN)Br
U197	106-51-4	2,5-Cyclohexadiene-1,4-dione
U056	110-82-7	Cyclohexane (I)
U129	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)-
U057	108-94-1	Cyclohexanone (I)
U130	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
U058	50-18-0	Cyclophosphamide
U240	¹ 94-75-7	2,4-D, salts & esters
U059	20830-81-3	Daunomycin
U060	72-54-8	DDD
U061	50-29-3	DDT
U062	2303-16-4	Diallate Dihardanana
U063	53-70-3	Dibenz[a,h]anthracene
U064	189-55-9	Dibenzo[a,i]pyrene
U066 U069	96-12-8 84-74-2	1,2-Dibromo-3-chloropropane Dibutyl phthalate
U069 U070	95-50-1	o-Dichlorobenzene
U070	541-73-1	m-Dichlorobenzene
U071	106-46-7	p-Dichlorobenzene
U073		3,3'-Dichlorobenzidine
	91-94-1 764-41-0	
	. /D4-41-U	1,4-Dichloro-2-butene (I, T)
U074		Dichloradifluoromathana
U075 U078	75-71-8 75-35-4	Dichlorodifluoromethane 1,1-Dichloroethylene

		bpart D Toxic Hazardous Wastes
HW#	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U025	111-44-4	Dichloroethyl ether
U027 U024	108-60-1	Dichloroisopropyl ether Dichloromethoxy ethane
U024 U081	111-91-1 120-83-2	2,4-Dichlorophenol
U082	87-65-0	2,6-Dichlorophenol
U084	542-75-6	1,3-Dichloropropene
U085	1464-53-5	1,2:3,4-Diepoxybutane (I, T)
U108	123-91-1	1,4-Diethyleneoxide
U028	117-81-7	Diethylhexyl phthalate
U395	5952-26-1	Diethylene glycol, dicarbamate. (5/96)
U086	1615-80-1	N,N'-Diethylhydrazine
U087	3288-58-2	O,O-Diethyl S-methyl dithiophosphate
U088	84-66-2	Diethyl phthalate
U089	56-53-1	Diethylstilbesterol
U090	94-58-6	Dihydrosafrole
U091 U092	119-90-4 124-40-3	3,3'-Dimethoxybenzidine Dimethylamine (I)
U092 U093	60-11-7	p-Dimethylaminoazobenzene
U094	57-97-6	7,12-Dimethylbenz[a]anthracene
U095	119-93-7	3,3'-Dimethylbenzidine
U096	80-15-9	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U097	79-44-7	Dimethylcarbamoyl chloride
U098	57-14-7	1,1-Dimethylhydrazine
U099	540-73-8	1,2-Dimethylhydrazine
U101	105-67-9	2,4-Dimethylphenol
U102	131-11-3	Dimethyl phthalate
U103	77-78-1	Dimethyl sulfate
U105	121-14-2	2,4-Dinitrotoluene
U106 U107	606-20-2 117-84-0	2,6-Dinitrotoluene Di-n-octyl phthalate
U107	123-91-1	1,4-Dioxane
U109	122-66-7	1,2-Diphenylhydrazine
U110	142-84-7	Dipropylamine (I)
U111	621-64-7	Di-n-propylnitrosamine
U041	106-89-8	Epichlorohydrin
U001	75-07-0	Ethanal (I)
U174	55-18-5	Ethanamine, N-ethyl-N-nitroso-
U404	121-44-8	Ethanamine, N,N-diethyl- (5/96)
U155	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl-N'-(2-thienylmethyl)-
U067	106-93-4	Ethane, 1,2-dibromo-
U076 U077	75-34-3	Ethane, 1,1-dichloro- Ethane, 1,2-dichloro-
U131	107-06-2 67-72-1	Ethane, hexachloro-
U024	111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
U117	60-29-7	Ethane, 1,1'-oxybis-(I)
U025	111-44-4	Ethane, 1,1'-oxybis (1) Ethane, 1,1'-oxybis [2-chloro-
U184	76-01-7	Ethane, pentachloro-
U208	630-20-6	Ethane, 1,1,1,2-tetrachloro-
U209	79-34-5	Ethane, 1,1,2,2-tetrachloro-
U218	62-55-5	Ethanethioamide
U226	71-55-6	Ethane, 1,1,1-trichloro-
U227	79-00-5	Ethane, 1,1,2-trichloro-
U410	59669-26-0	Ethanimidothioic acid, N,N'-[thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester (5/96)
U394	30558-43-1	Ethanimidothioic acid, 2-(dimethylamino)-N- hydroxy -2-oxo-, methyl ester.
U359 U173	110-80-5 1116-54-7	Ethanol, 2-ethoxy - Ethanol, 2,2'-(nitrosoimino)bis -
U395	5952-26-1	Ethanol, 2,2'-oxybis-, dicarbamate. (5/96)
U004	98-86-2	Ethanone, 1-phenyl-
U043	75-01-4	Ethene, chloro-
U042	110-75-8	Ethene, (2-chloroethoxy)-
U078	75-35-4	Ethene, 1,1-dichloro-
U079	156-60-5	Ethene, 1,2-dichloro-, (E)-
U210	127-18-4	Ethene, tetrachloro-
U228	79-01-6	Ethene, trichloro-
U112	141-78-6	Ethyl acetate (I)
U113	140-88-5	Ethyl acrylate (I)

		ppart D Toxic Hazardous Wastes
HW #	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U238	51-79-6	Ethyl carbamate (urethane)
U117	60-29-7	Ethyl ether (I)
U114	¹ 111-54-6	Ethylenebisdithiocarbamic acid, salts & esters Ethylene dibromide
U067 U077	106-93-4 107-06-2	Ethylene dichloride
U359	110-80-5	Ethylene glycol monoethyl ether
U115	75-21-8	Ethylene oxide (I, T)
U116	96-45-7	Ethylenethiourea
U076	75-34-3	Ethylidene dichloride
U118	97-63-2	Ethyl methacrylate
U119	62-50-0	Ethyl methanesulfonate
U120	206-44-0	Fluoranthene
U122	50-00-0	Formaldehyde
U123	64-18-6	Formic acid (C, T)
U124	110-00-9	Furan (I)
U125	98-01-1	2-Furancarboxaldehyde (I)
U147	108-31-6	2.5-Furandione
U213	109-99-9	Furan, tetrahydro-(I)
U125	98-01-1	Furfural (I)
U124	110-00-9	Furfuran (I)
U206	18883-66-4	Glucopyranose, 2-deoxy -2-(3-methyl-3- nitrosoureido)-, D-
U206	18883-66-4	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)- carbonyl]amino]-
U126	765-34-4	Glycidylaldehyde
U163	70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-
U127	118-74-1	Hexachlorobenzene
U128	87-68-3	Hexachlorobutadiene
U130	77-47-4	Hexachlorocyclopentadiene
U131	67-72-1	Hexachloroethane
U132	70-30-4	Hexachlorophene
U243	1888-71-7	Hexachloropropene
U133	302-01-2	Hydrazine (R, T)
U086	1615-80-1	Hydrazine, 1,2-diethyl-
U098	57-14-7	Hydrazine, 1,1-dimethyl-
U099	540-73-8	Hydrazine, 1,2-dimethyl-
U109	122-66-7	Hydrazine, 1,2-diphenyl-
U134	7664-39-3	Hydrofluoric acid (C, T)
U134	7664-39-3	Hydrogen fluoride (C, T)
U135	7783-06-4	Hydrogen sulfide
U135	7783-06-4	Hydrogen sulfide H ₂ S
U096	80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl- (R)
U116	96-45-7	2-Imidazolidinethione
U137	193-39-5	Indeno[1,2,3-cd]pyrene
U190	85-44-9	1,3-Isobenzofurandione
U140	78-83-1	Isobutyl alcohol (I, T)
U141	120-58-1	Isosafrole
U142	143-50-0	Kepone
U143	303-34-4	Lasiocarpine
U144 U146	301-04-2 1335-32-6	Lead acetate Lead bis(sectate O)tetrohydroxytri
U146 U145	7446-27-7	Lead, bis(acetato-O)tetrahydroxytri- Lead phosphate
U145 U146	1335-32-6	Lead phosphate Lead subacetate
U129	58-89-9	Lindane Lindane
U163	70-25-7	MNNG
U147	108-31-6	Maleic anhydride
U147	123-33-1	Maleic hydrazide
U149	109-77-3	Malononitrile
U150	148-82-3	Melp halan
U151	7439-97-6	Mercury
U152	126-98-7	Methacrylonitrile (I, T)
U092	124-40-3	Methanamine, N-methyl- (I)
U029	74-83-9	Methane, bromo-
U045	74-87-3	Methane, chloro- (I, T)
U046	107-30-2	Methane, chloromethoxy -
U068	74-95-3	Methane, dibromo-
U080	75-09-2	Methane, dichloro-
	75-71-8	Methane, dichlorodifluoro-

261.33(f)		ppart D Toxic Hazardous Wastes
HW#	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U138	74-88-4	Methane, iodo-
U119	62-50-0	Methanesulfonic acid, ethyl ester
U211	56-23-5	Methane, tetrachloro-
U153	74-93-1	Methanethiol (I, T)
U225	75-25-2	Methane, tribromo-
U044	67-66-3	Methane, trichloro-
U121	75-69-4	Methane, trichlorofluoro-
U036	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8- octachloro-2,3,3a,4,7,7a-hexahydro-
U154	67-56-1	Methanol (I)
U155	91-80-5	Methapyrilene
U142	143-50-0	
U247		1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2- one, 1,1a,3,3a,4,5,5,5a,5b,6- decachlorooctahydro-
U154	72-43-5	Methoxychlor Methodological desired by the second of the
	67-56-1	Methyl alcohol (I)
U029	74-83-9	Methyl bromide
U186	504-60-9	1-Methylbutadiene (I)
U045	74-87-3	Methyl chloride (I, T)
U156	79-22-1	Methyl chlorocarbonate (I, T)
U226	71-55-6	Methyl chloroform
U157	56-49-5	3-Methylcholanthrene
J158	101-14-4	4,4'-Methylenebis(2-chloroaniline)
J068	74-95-3	Methylene bromide
U080	75-09-2	Methylene chloride
U159	78-93-3	Methyl ethyl ketone (MEK) (I, T)
U160	1338-23-4	Methyl ethyl ketone peroxide (R, T)
U138	74-88-4	Methyl iodide
U161	108-10-1	Methyl isobutyl ketone (I)
U162	80-62-6	Methyl methacrylate (I, T)
U161	108-10-1	4-Methyl-2-pentanone (I)
U164	56-04-2	Methylthiouracil
U010	50-07-7	Mitomycin C
U059	20830-81-3	5,12-Naphthacenedione, 8-acetyl-10-[(3- amino-2,3,6-trideoxy)-alpha-L-lyxo- hexopyranosyl)oxyl-
0037	20030-01-3	7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-
U167	134-32-7	1-Naphthalenamine
U168	91-59-8	2-Naphthalenamine
U026	494-03-1	Naphthalenamine, N,N'-bis(2-chloroethyl)-
U165	91-20-3	Naphthalene
U047	91-20-3	Naphthalene, 2-chloro-
U166		
	130-15-4	1,4-Naphthalenedione
U236	72-57-1	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'- dimethyl[1,1'-biphenyl]-4,4'- diyl)bis(azo)bis[5-amino-4-
11070	62.25.2	hydroxy]-, tetrasodium salt
U279	63-25-2	1-Naphthalenol, methylcarbamate. (5/96)
U166	130-15-4	1,4-Naphthoquinone
U167	134-32-7	alpha-Naphthylamine
U168	91-59-8	beta-Naphthylamine
U217	10102-45-1	Nitric acid, thallium(1+) salt
U169	98-95-3	Nitrobenzene (I, T)
U170	100-02-7	p-Nitrophenol
U171	79-46-9	2-Nitropropane (I, T)
U172	924-16-3	N-Nitrosodi-n-butylamine
U173	1116-54-7	N-Nitrosodiethanolamine
J174	55-18-5	N-Nitrosodiethylamine
U176	759-73-9	N-Nitroso-N-ethylurea
U177	684-93-5	N-Nitroso-N-methylurea
U178	615-53-2	N-Nitroso-N-methylurethane
U179	100-75-4	N-Nitrosopiperidine
U180	930-55-2	N-Nitrosopyrolidine
U181	99-55-8	5-Nitro-o-toluidine
U193	1120-71-4	1,2-Oxathiolane, 2,2-dioxide
U058	50-18-0	2H-1,3,2-Oxazaphosphorin-2-amine, N,N- bis(2-chloroethyl)tetrahydro-, 2-oxide
U115	75-21-8	Oxirane (I, T)
U126	765-34-4	Oxiranecarboxyaldehyde
U041	106-89-8	Oxirane, (chloromethyl)-
U182	123-63-7	Paraldehyde
U183	608-93-5	Pentachlorobenzene
T T 1 O 4	76-01-7	Pentachloroethane
U184 U185	82-68-8	Pentachloronitrobenzene (PCNB)

		ppart D Toxic Hazardous Wastes
HW#	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
See F027	87-86-5	Pentachlorophenol
U161	108-10-1	Pentanol, 4-methyl-
U186	504-60-9	1,3-Pentadiene (I)
U187	62-44-2	Phenacetin
U188 U048	108-95-2 95-57-8	Phenol Phenol 2 ablance
U048 U039	59-50-7	Phenol, 2-chloro-
U039 U081		Phenol, 4-chloro-3-methyl- Phenol, 2,4-dichloro-
	120-83-2	
U082 U089	87-65-0	Phenol, 2,6-dichloro-
U101	56-53-1 105-67-9	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)- Phenol, 2,4-dimethyl-
U052	1319-77-3	Phenol, methyl-
U132	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
U411	114-26-1	Phenol, 2-(1-methylethoxy)-, methylcarbamate. (5/96)
U170	100-02-7	Phenol, 4-nitro-
See F027	87-86-5	Phenol, pentachloro-
See F027	58-90-2	Phenol, 2,3,4,6-tetrachloro-
See F027	95-95-4	Phenol, 2,4,5-trichloro-
See F027	88-06-2	Phenol, 2,4,6-trichloro-
U150	148-82-3	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-
U145	7446-27-7	Phosphoric acid, lead(2+) salt (2:3)
U087	3288-58-2	Phosphorodithioic acid, O,O-diethyl S-methyl ester
U189	1314-80-3	Phosphorus sulfide (R)
U190	85-44-9	Phthalic anhydride
U191	109-06-8	2-Picoline
U179	100-75-4	Piperidine, 1-nitroso-
U192	23950-58-5	Pronamide
U194	107-10-8	1-Propanamine (I, T)
U111	621-64-7	1-Propanamine, N-nitroso-N-propyl-
U110	142-84-7	1-Propanamine, N-propyl- (I)
U066	96-12-8	Propane, 1,2-dibromo-3-chloro-
U083	78-87-5	Propane, 1,2-dichloro-
U149	109-77-3	Propanedinitrile
U171	79-46-9	Propane, 2-nitro- (I, T)
U027	108-60-1	Propane, 2,2'-oxybis[2-chloro-
U193	1120-71-4	1,3-Propane sultone
See F027	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-
U235	126-72-7	1-Propanol, 2,3-dibromo-, phosphate (3:1)
U140	78-83-1	1-Propanol, 2-methyl- (I, T)
U002	67-64-1	2-Propanone (I)
U007	79-06-1	2-Propenamide
U084	542-75-6	1-Propene, 1,3-dichloro-
U243	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-
U009	107-13-1	2-Propenenitrile
U152	126-98-7	2-Propenenitrile, 2-methyl- (I, T)
U008	79-10-7	2-Propenoic acid (I)
U113	140-88-5	2-Propenoic acid, ethyl ester (I)
U118	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester
U162	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester (I, T)
U373	112-42-9	Propham. (5/96)
U411	114-26-1	Propoxur. (5/96)
U194	107-10-8	n-Propylamine (I, T)
U083	78-87-5	Propylene dichloride
U387	52888-80-9	Prosulfocarb. (5/96)
U148	123-33-1	3,6-Pyridazinedione, 1,2-dihydro-
U196	110-86-1	Pyridine
U191	109-06-8	Pyridine, 2-methyl-
U237	66-75-1	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2- chloroethyl)amino]-
U164	56-04-2	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2- thioxo-
U180	930-55-2	Pyrrolidine, 1-nitroso-
U200	50-55-5	Reserpine
U201	108-46-3	Resorcinol
U202	¹ 81-07-2	Saccharin, & salts
U203	94-59-7	Safrole
U204	7783-00-8	Selenious acid
U204	7783-00-8	Selenium dioxide

261.33(f)	Lists of Sul	opart D Toxic Hazardous Wastes
HW#	CAS#	Substance (11/90; 12/92; 12/93; 5/96, 9/98)
U205	7488-56-4	Selenium sulfide
U205	7488-56-4	Selenium sulfide SeS ₂ (R, T)
U015	115-02-6	L-Serine, diazoacetate (ester)
See F027	93-72-1	Silvex (2,4,5-TP)
U206	18883-66-4	Streptozotocin
U103	77-78-1	Sulfuric acid, dimethyl ester
U189	1314-80-3	Sulfur phosphide (R)
See F027	93-76-5	2,4,5-T
U207	95-94-3	1,2,4,5-Tetrachlorobenzene
U208	630-20-6	1,1,1,2-Tetrachloroethane
U209	79-34-5	1,1,2,2-Tetrachloroethane
U210	127-18-4	Tetrachloroethylene
See F027	58-90-2	2,3,4,6-Tetrachlorophenol
U213	109-99-9	Tetrahydrofuran (I)
U214	563-68-8	Thallium(I) acetate
U215	6533-73-9	Thallium(I) carbonate
U216	7791-12-0	Thallium(I) chloride
U216	7791-12-0	Thallium chloride TICl
U217	10102-45-1	Thallium(I) nitrate
U218	62-55-5	Thioacetamide
U410	59669-26-0	Thiodicarb. (5/96)
U153	74-93-1	Thiomethanol (I, T)
U244	137-26-8	Thioperoxydicarbonic diamide $[(H_2N)C(S)]_2S_2$, tetramethyl-
U409	23564-05-8	Thiophanate-methyl. (5/96)
U219	62-56-6	Thiourea
U244	137-26-8	Thiram
U220	108-88-3	Toluene
U221	25376-45-8	Toluenediamine
U223	26471-62-5	Toluene diisocyanate (R, T)
U328	95-53-4	o-Toluidine
U353	106-49-0	p-Toluidine
U222	636-21-5	o-Toluidine hydrochloride
U389	2303-17-5	Triallate. (5/96)
U011	61-82-5	1H-1,2,4-Triazol-3-amine
U227	79-00-5	1,1,2-Trichloroethane
U228	79-01-6	Trichloroethylene
U121	75-69-4	Trichloromonofluoromethane
See F027	95-95-4	2,4,5-Trichlorophenol
See F027	88-06-2	2,4,6-Trichlorophenol
U404	121-44-8	Triethylamine.(5/96)
U234	99-35-4	1,3,5-Trinitrobenzene (R, T)
U182	123-63-7	1,3,5-Trioxane, 2,4,6-trimethyl-
U235	126-72-7	Tris(2,3-dibromopropyl) phosphate
U236	72-57-1	Trypan blue
U237	66-75-1	Uracil mustard
U176	759-73-9	Urea, N-ethyl-N-nitroso-
U177	684-93-5	Urea, N-methyl-N-nitroso-
U043	75-01-4	Vinyl chloride
U248	¹ 81-81-2	Warfarin, & salts, when present at concentrations of 0.3% or less
U239	1330-20-7	Xylene (I)
U200	50-55-5	Yohimban-16-carboxylic acid, 11,17- dimethoxy-18-[(3,4,5- trimethoxybenzoyl)oxy]-, methyl ester,
		(3beta,16beta,17alpha,18beta,20alpha)-
U249	1314-84-7	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less

CAS Number given for parent compound only.

261.34 [Reserved]

261.35 Deletion of certain hazardous waste codes following equipment cleaning and replacement

(a) Wastes from wood preserving processes at plants that do not resume or initiate use of chlorophenolic preservatives will not meet the listing definition of F032 once the generator has met all of the requirements of paragraphs (b) and (c) of this

section. These wastes may, however, continue to meet another hazardous waste listing description or may exhibit one or more of the hazardous waste characteristics.

(b) Generators must either clean or replace all process equipment that may have come into contact with chlorophenolic formulations or constituents thereof, including, but not limited to, treatment cylinders, sumps, tanks, piping systems, drip pads, fork lifts, and trams, in a manner that minimizes or

261.38 Comparable/Syngas Fuel Exclusion.

- eliminates the escape of hazardous waste or constituents, leachate, contaminated drippage, or hazardous waste decomposition products to the ground water, surface water, or atmosphere.
 - (1) Generators shall do one of the following:
- (i) Prepare and follow an equipment cleaning plan and clean equipment in accordance with this section;
- (ii) Prepare and follow an equipment replacement plan and replace equipment in accordance with this section; or
- (iii) Document cleaning and replacement in accordance with this section, carried out after termination of use of chlorophenolic preservations.
 - (2) Cleaning Requirements.
- (i) Prepare and sign a written equipment cleaning plan that describes:
 - (A) The equipment to be cleaned;
 - (B) How the equipment will be cleaned;
 - (C) The solvent to be used in cleaning;
 - (D) How solvent rinses will be tested;

and

disposed.

- (E) How cleaning residues will be
- (ii) Equipment must be cleaned as follows:
- (A) Remove all visible residues from process equipment;
- (B) Rinse process equipment with an appropriate solvent until dioxins and dibenzofurans are not detected in the final solvent rinse.
 - (iii) Analytical requirements.
- (A) Rinses must be tested in accordance with SW-846, Method 8290.
- (B) "Not detected" means at or below the lower method calibration limit (MCL) in Method 8290, Table 1.
- (iv) The generator must manage all residues from the cleaning process as F032 waste.
 - (3) Replacement requirements.
- (i) Prepare and sign a written equipment replacement plan that describes:
 - (A) The equipment to be replaced;
 - (B) How the equipment will be

replaced; and

- (C) How the equipment will be disposed.
- (ii) The generator must manage the discarded equipment as F032 waste.
 - (4) Documentation requirements.
- (i) Document that previous equipment cleaning and/or replacement was performed in accordance with this section and occurred after cessation of use of chlorophenolic preservatives.
- (c) The generator must maintain the following records documenting the cleaning and replacement as part of the facility's operating record:
 - (1) The name and address of the facility;

- (2) Formulations previously used and the date on which their use ceased in each process at the plant;
- (3) Formulations currently used in each process at the plant;
- (4) The equipment cleaning or replacement plan;
- (5) The name and address of any persons who conducted the cleaning and replacement;
- (6) The dates on which cleaning and replacement were accomplished;
 - (7) The dates of sampling and testing;
- (8) A description of the sample handling and preparation techniques, including techniques used for extraction, containerization, preservation, and chain-of-custody of the samples;
- (9) A description of the tests performed, the date the tests were performed, and the results of the tests;
- (10) The name and model numbers of the instrument(s) used in performing the tests;
 - (11) QA/QC documentation; and
- (12) The following statement signed by the generator or his authorized representative:
 I certify under penalty of law that all process equipment required to be cleaned or replaced under 261.35 was cleaned or replaced as represented in the equipment cleaning and replacement plan and accompanying documentation. I am aware that there are significant penalties for providing false information, including the possibility of fine or imprisonment.

261.38 Comparable/Syngas Fuel Exclusion.

Wastes that meet the following comparable/syngas fuel requirements are not solid wastes: (11/99)

- (a) Comparable fuel specifications.
 - (1) Physical specifications.
- (i) Heating value. The heating value must exceed 5,000 BTU/lbs. (11,500 J/g).
- (ii) Viscosity. The viscosity must not exceed: 50 cs, as-fired.
- (2) Constituent specifications. For compounds listed below, the specification levels and, where non-detect is the specification, minimum required detection limits are: [see Table 1].
- (b) Synthesis gas fuel specification.-Synthesis gas fuel (i.e., syngas fuel) that is generated from hazardous waste must:
 - (1) Have a minimum Btu value of 100 Btu/Scf:
 - (2) contain less than 1 ppmv of total halogen;
- (3) contain less than 300 ppmv of total nitrogen other than diatomic nitrogen (N_2);
- (4) contain less than 200 ppmv of hydrogen sulfide; and
- (5) Contain less than 1 ppmv of each hazardous constituent in the target list of Appendix VIII constituents of this part.

Chemical name	CAS#	Composite value (mg/kg)	Heating value (BTU/lb)	Concentration limit (mg/kg at 10,000 BTU/lb)	Minimum required detection limit (mg/kg)
Total Nitrogen as N	NA	9000	18400	4900~	mmt (mg/kg/
Total Halogens as Cl	NA	1000	18400	540	
Total Organic Halogens as Cl	NA			(¹)	
Polychlorinated biphenyls, total [Arocolors, total]	1336-36-3	ND		ND	1.4
Cyanide, total	57-12-5	ND		ND	1.0
Metals:					
Antimony, total	7440-36-0	ND		12	
Arsenic, total	7440-38-2	ND		0.23	
Barium, total	7440-39-3	ND		23	
Beryllium, total	7440-41-7	ND		1.2	
Cadmium, total	7440-43-9		ND		1.2
Chromium, total	7440-47-3	ND		2.3	
Cobalt	7440-48-4	ND		4.6	
Lead, total	7439-92-1	57	18100	31	
Manganese	7439-96-5	ND		1.2	
Mercury total	7439-97-6	ND		0.25	
Nickel, total	7440-02-0	106	18400	58	
Selenium, total	7782-49-2	ND		0.23	
Silver, total	7440-22-4	ND		2.3	
Thallium, total	7440-28-0	ND		23	
Hydrocarbons:					
Benzo[a]anthracene	56-55-3	ND		2400	
Benzene	71-43-2	8000	19600	4100	
Benzo[b]fluoranthene	205-99-2	ND		2400	
Benzo[k]fluoranthene	207-08-9	ND		2400	
Benzo[a]pyrene	50-32-8	ND		2400	
Chrysene	218-01-9	ND		2400	
Dibenzo[a, h]anthracene	53-70-3	ND		2400	
7,12-Dimethylbenz[a]anthracene	57-97-6	ND		2400	
Fluoranthene	206-44-0	ND		2400	
Indeno(1,2,3-cd)pyrene	193-39-5	ND		2400	
3-Methylcholanthrene	56-49-5	ND		2400	
Naphthalene	91-20-3	6200	19400	3200	
Toluene	108-88-3	69000	19400	36000	
Oxygenates:					
Acetophenone	98-86-2	ND		2400	
Acrolein	107-02-8	ND		39	
Allyl alcohol	107-18-6	ND		30	
Bis(2-ethylhexyl)phthalate [Di-2-ethylhexyl phthalate]	117-81-7	ND		2400	
Butyl benzyl phthalate	85-68-7	ND		2400	
o-Cresol [2-Methyl phenol]	95-48-7	ND		2400	
m-Cresol [3-Methyl phenol]	108-39-4	ND		2400	
p-Cresol [4-Methyl phenol]	106-44-5	ND		2400	
Di-n-butyl phthalate	84-74-2	ND		2400	
Diethyl phthalate	84-66-2	ND		2400	
2,4-Dimethylphenol	105-67-9	ND		2400	
Dimethyl phthalate	131-11-3	ND		2400	
Di-n-octyl phthalate	117-84-0	ND		2400	
Endothall	145-73-3	ND		100	
Ethyl methacrylate	97-63-2	ND		39	
2-Ethoxyethanol [Ethylene glycol monoethyl ether]	110-80-5	ND		100	
Isobutyl alcohol	78-83-1	ND		39	
Isosafrole	120-58-1	ND		2400	
Methyl ethyl ketone [2-Butanone]	78-93-3	ND		39	
Methyl methacrylate	80-62-6	ND		39	
1,4-Naphthoquinone	130-15-4	ND		2400	
Phenol	108-95-2	ND		2400	
Propargyl alcohol [2-Propyn-1-ol]	107-19-7	ND		30	-
Safrole	94-59-7	ND		2400	
Sulfonated Organics:					
Carbon disulfide	75-15-0	ND		ND	39

		on Limit Values for Comparable Fuel Specification				
Zorico Tuole I Detection una Deac					Minimum	
Chaminal	CAC #	Composite	Heating value	Concentration	required	
Chemical name	CAS#	value	(BTU/lb)	limit (mg/kg at	detection	
		(mg/kg)		10,000 BTU/lb)	limit (mg/kg)	
Disulfoton	298-04-4	ND		ND	2400	
Ethyl methanesulfonate	62-50-0	ND		ND	2400	
Methyl methanesulfonate	66-27-3	ND		ND	2400	
Phorate	298-02-2	ND		ND	2400	
1,3-Propane sultone	1120-71-4	ND		ND	100	
Tetraethyldithiopyrophosphate [Sulfotepp]	3689-24-5	ND		ND	2400	
Thiophenol [Benzenethiol]	108-98-5	ND		ND	30	
O,O,O-Triethyl phosphorothioate	126-68-1	ND		ND	2400	
Nitrogenated Organics:						
Acetonitrile [Methyl cyanide]	75-05-8	ND		ND	39	
2-Acetylaminofluorene [2-AAF]	53-96-3	ND		ND	2400	
Acrylonitrile	107-13-1	ND		ND	39	
4-Aminobiphenyl	92-67-1	ND		ND	2400	
4-Aminopyridine	504-24-5	ND		ND	100	
Aniline	62-53-3	ND		ND	2400	
Benzidine	92-87-5	ND		ND	2400	
Dibenz[a, j]acridine	224-42-0	ND		ND	2400	
O,O-Diethyl O-pyrazinyl phosphorothioate [Thionazin]	297-97-2	ND		ND	2400	
Dimethoate	60-51-5	ND		ND	2400	
p-(Dimethylamino) azobenzene [4-	60-11-7	ND		ND	2400	
Dimethylaminoazobenzene]	110	115		115	2105	
3,3'-Dimethylbenzidine	119-93-7	ND		ND	2400	
a, a-Dimethylphenethylamine	122-09-8	ND		ND	2400	
3,3'-Dimethoxybenzidine	119-90-4	ND		ND	100	
1,3-Dinitrobenzene [m-Dinitrobenzene]	99-65-0	ND		ND	2400	
4,6-Dinitro-o-cresol	534-52-1	ND		ND	2400	
2,4-Dinitrophenol	51-28-5	ND		ND	2400	
2,4-Dinitrotoluene	121-14-2	ND		ND	2400	
2,6-Dinitrotoluene	606-20-2	ND		ND	2400	
Dinoseb [2-sec-Butyl-4,6-dinitrophenol]	88-85-7	ND		ND	2400	
Diphenylamine	122-39-4	ND		ND	2400	
Ethyl carbamate [Urethane]	51-79-6	ND		ND	100	
Ethylenethiourea (2-Imidazolidinethione)	96-45-7	ND		ND	110	
Famphur Methacrylonitrile	52-85-7	ND ND		ND	2400 39	
	126-98-7 91-80-5	ND ND		ND ND	2400	
Methapyrilene Methomyl	16752-77-5	ND ND		ND ND	57	
2-Methyllactonitrile, [Acetone cyanohydrin]	75-86-5	ND		ND	100	
Methyl parathion	298-00-0	ND		ND	2400	
MNNG (N-Metyl-N-nitroso-N'-nitroguanidine)	70-25-7	ND		ND ND	110	
1-Naphthylamine, [a -Naphthylamine]	134-32-7	ND		ND	2400	
2-Naphthylamine, [β-Naphthylamine]	91-59-8	ND		ND	2400	
Nicotine	54-11-5	ND		ND	100	
4-Nitroaniline [p-Nitroaniline]	100-01-6	ND		ND ND	2400	
Nitrobenzene	98-95-3	ND		ND	2400	
p-Nitrophenol, [p-Nitrophenol]	100-02-7	ND		ND	2400	
5-Nitro-o-toluidine	99-55-8	ND		ND	2400	
N-Nitrosodi-n-butylamine	924-16-3	ND		ND	2400	
N-Nitrosodiethylamine	55-18-5	ND		ND	2400	
N-Nitrosodichrylamine, [Diphenylnitrosamine]	86-30-6	ND		ND	2400	
N-Nitroso-N-methylethylamine	10595-95-6	ND		ND	2400	
N-Nitrosomorpholine	59-89-2	ND		ND	2400	
N-Nitrosopiperidine	100-75-4	ND		ND	2400	
N-Nitrosopyrrolidine	930-55-2	ND		ND	2400	
2-Nitropropane	79-46-9	ND		ND	30	
Parathion	56-38-2	ND		ND	2400	
Phenacetin	62-44-2	ND		ND	2400	
1,4-Phenylene diamine, [p-Phenylenediamine]	106-50-3	ND		ND	2400	
N-Phenylthiourea	103-85-5	ND		ND	57	
2-Picoline [alpha-Picoline]	109-06-8	ND		ND	2400	
Propylthioracil, [6-Propyl-2-thiouracil]	51-52-5	ND		ND	100	
Pyridine	110-86-1	ND		ND	2400	
Strychnine	57-24-9	ND		ND	100	
			t			

261.38 Table 1 Detection and Detec				uel Specificati	
20100 14000 1 20000000 4110 2000				1	Minimum
Chaminal manne	CAC #	Composite	Heating value	Concentration	required
Chemical name	CAS#	value	(BTU/lb)	limit (mg/kg at 10,000 BTU/lb)	detection
		(mg/kg)		10,000 B1 U/Ib)	limit (mg/kg)
Thioacetamide	62-55-5	ND		ND	57
Thiofanox	39196-18-4	ND		ND	100
Thiourea	62-56-6	ND		ND	57
Toluene-2,4-diamine [2,4-Diaminotoluene]	95-80-7	ND		ND	57
Toluene-2,6-diamine [2,6-Diaminotoluene]	823-40-5	ND		ND	57
o-Toluidine	95-53-4	ND		ND	2400
p-Toluidine	106-49-0	ND		ND	100
1,3,5-Trinitrobenzene, [sym-Trinitobenzene]	99-35-4	ND		ND	2400
Halogenated Organic:					
Allyl chloride	107-05-1	ND		ND	39
Aramite	140-57-8	ND		ND	2400
Benzal chloride [Dichloromethyl benzene]	98-87-3	ND		ND	100
Benzyl chloride	100-44-77	ND		ND	100
bis(2-Chloroethyl)ether [Dichoroethyl ether]	111-44-4	ND		ND	2400
Bromoform [Tribromomethane]	75-25-2	ND		ND	39
Bromomethane [Methyl bromide]	74-83-9	ND		ND	39
4-Bromophenyl phenyl ether [p-Bromo diphenyl ether]	101-55-3	ND		ND	2400
Carbon tetrachloride	56-23-5	ND		ND	39
Chlordane	57-74-9	ND		ND	14
p-Chloroaniline	106-47-8	ND		ND	2400
Chlorobenzene	108-90-7	ND		ND	39
Chlorobenzilate	510-15-6	ND		ND	2400
p-Chloro-m-cresol	59-50-7	ND		ND	2400
2-Chloroethyl vinyl ether	110-75-8	ND		ND	39
Chloroform	67-66-3	ND		ND	39
Chloromethane [Methyl chloride]	74-87-3	ND		ND	39
2-Chloronaphthalene [beta-Chloronaphthalene]	91-58-7	ND		ND	2400
2-Chlorophenol [o-Chlorophenol]	95-57-8	ND		ND	2400
Chloroprene [2-Chloro-1,3-butadiene]	1126-99-8	ND		ND	39
2,4-D [2, 4-Dichlorophenoxyacetic acid]	94-75-7	ND		ND	7.0
Diallate	2303-16-4	ND		ND	2400
1,2-Dibromo-3-chloropropane	96-12-8	ND		ND	39
1,2-Dichlorobenzene [o-Dichlorobenzene]	95-50-1	ND		ND	2400
1,3-Dichlorobenzene [m-Dichlorobenzene]	541-73-1	ND		ND	2400
1,4-Dichlorobenzene [p-Dichlorobenzene]	106-46-7	ND		ND	2400
3,3'-Dichlorobenzidine	91-94-1	ND		ND	2400
Dichlorodifluoromethane [CFC-12]	75-71-8	ND		ND	39
1,2-Dichloroethane [Ethylene dichloride]	107-06-2	ND		ND	39
1,1-Dichloroethylene [Vinylidene chloride]	75-35-4	ND		ND	39
Dichloromethoxy ethane [Bis(2-chloroethoxy)methane	111-91-1	ND		ND	2400
2,4-Dichlorophenol	120-83-2	ND		ND	2400
2,6-Dichlorophenol	87-65-0	ND		ND	2400
1,2-Dichloropropane [Propylene dichloride]	78-87-5	ND		ND	39
cis-1,3-Dichloropropylene	10061-01-5	ND		ND ND	39
trans-1,3 -Dichloropropylene	10061-01-5	ND ND		ND ND	39
1,3-Dichloro-2-propanol	96-23-1	ND ND		ND ND	39
Endosulfan I	959-98-8	ND ND		ND ND	
Endosulfan II	33213-65-9	ND ND		ND ND	1.4
Endosultan II Endrin	72-20-8	ND ND		ND ND	1.4
	7421-93-4	ND ND		ND ND	1.4
Endrin aldehyde					
Endrin Ketone	53494-70-5	ND		ND	1.4
Epichlorohydrin [1-Chloro-2,3-epoxy propane]	106-89-8	ND ND		ND	30
Ethylidene dichloride [1,1-Dichloroethane]	75-34-3	ND ND		ND ND	39 100
2-Fluoroacetamide	640-19-7	ND ND		ND ND	
Heptachlor	76-44-8			ND ND	1.4
Heptachlor epoxide	1024-57-3	ND ND		ND	2.8
Hexachlorobenzene	118-74-1	ND ND		ND	2400
Hexachloro-1, 3-butadiene [Hexachlorobutadiene]	87-68-3	ND		ND	2400
Hexachlorocyclopentadiene	77-47-4	ND		ND	2400
Hexachloroethane	67-72-1	ND		ND	2400
Hexachlorophene	70-30-4	ND		ND	59000
Hexachloropropene [Hexachloropropylene]	1888-71-7	ND		ND	2400
Isodrin	465-73-6	ND		ND	2400

261.38 Table 1 Detection and Detection Limit Values for Comparable Fuel Specification					
Chemical name	CAS#	Composite value (mg/kg)	Heating value (BTU/lb)	Concentration limit (mg/kg at 10,000 BTU/lb)	Minimum required detection limit (mg/kg)
Kepone [Chlordecone]	143-50-0	ND		ND	4700
Lindane [gamma-BHC] [gamma-	58-89-9	ND		ND	1.4
Hexachlorocyclohexane]					
Methylene chloride [Dichloromethane]	75-09-2	ND		ND	39
4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND		ND	100
Methyl iodide [Iodomethane]	74-88-4	ND		ND	39
Pentachlorobenzene	608-93-5	ND		ND	2400
Pentachloroethane	76-01-7	ND		ND	39
Pentachloronitrobenzene [PCNB] [Quintobenzene] [Quintozene]	82-68-8	ND		ND	2400
Pentachlorophenol	87-86-5	ND		ND	2400
Pronamide	23950-58-5	ND		ND	2400
Silvex [2,4,5-Trichlorophenoxypropionic acid]	93-72-1	ND		ND	7.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin [2,3,7,8-TCDD]	1746-01-6	ND		ND	30
1,2,4,5-Tetrachlorobenzene	95-94-3	ND		ND	2400
1,1,2,2-Tetrachloroethane	79-34-5	ND		ND	39
Tetrachloroethylene [Perchloroethylene]	127-18-4	ND		ND	39
2,3,4,6-Tetrachlorophenol	58-90-2	ND		ND	2400
1,2,4-Trichlorobenzene	120-82-1	ND		ND	2400
1,1,1-Trichloroethane [Methyl chloroform]	71-55-6	ND		ND	39
1,1,2-Trichloroethane [Vinyl trichloride]	79-00-5	ND		ND	39
Trichloroethylene	79-01-6	ND		ND	39
Trichlorofluoromethane [Trichlormonofluoromethane]	75-69-4	ND		ND	39
2,4,5-Trichlorophenol	95-95-4	ND		ND	2400
2,4,6-Trichlorophenol	88-06-2	ND		ND	2400
1,2,3-Trichloropropane	96-18-4	ND		ND	39
Vinyl Chloride	75-01-4	ND		ND	39

Notes: NA - Not Applicable.

ND - Nondetect

(1) 25 or individual halogenated organics listed below.

- (c) Implementation. Waste that meets the comparable or syngas fuel specifications provided by paragraphs (a) or (b) of this section (these constituent levels must be achieved by the comparable fuel when generated, or as a result of treatment or blending, as provided in (3) or (4) below) is excluded from the definition of solid waste provided that the following requirements are met:
- (1) Notices-For purposes of this section, the person claiming and qualifying for the exclusion is called the comparable/syngas fuel generator and the person burning the comparable/syngas fuel is called the comparable/syngas burner. The person who generates the comparable fuel or syngas fuel must claim and certify to the exclusion.
- (i) State RCRA and CAA Directors in Authorized States or Regional RCRA and CAA Directors in Unauthorized States.
- (A) The generator must submit a onetime notice to the Regional or State RCRA and CAA Directors, in whose jurisdiction the exclusion is being claimed and where the comparable/syngas fuel will be burned, certifying compliance with the conditions of the exclusion and providing documentation as required by paragraph (C);

- (B) If the generator is a company that generates comparable/syngas fuel at more than one facility, the generator shall specify at which sites the comparable/syngas fuel will be generated;
- (C) A comparable/syngas fuel generator's notification to the Directors must contain the following items:
- (1) the name, address, and RCRA ID number of the person/facility claiming the exclusion;
- (2) the applicable EPA Hazardous Waste Codes for the hazardous waste;
- (3) name and address of the units, meeting the requirements of 261.38(c)(2), that will burn the comparable/syngas fuel; and
- (4) the following statement is signed and submitted by the person claiming the exclusion or his authorized representative:

Under penalty of criminal and civil prosecution for making or submitting false statements, representations, or omissions, I certify that the requirements of 261.38 have been met for all waste identified in this notification. Copies of the records and information required at 261.38(c)(10) are available at the comparable/syngas fuel generators facility. Based on my inquiry of the individuals immediately responsible for obtaining the

information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(ii) Public Notice. Prior to burning an

- excluded comparable/syngas fuel, the burner must publish in a major newspaper of general circulation local to the site where the fuel will be burned, a notice entitled "Notification of Burning a Comparable/Syngas Fuel Excluded Under the Resource Conservation and Recovery Act" containing
- the following information:
 (A)name, address, and RCRA ID
 number of the generating facility;
- (B) name and address of the unit(s) that will burn the comparable/syngas fuel;
- (C) a brief, general description of the manufacturing, treatment, or other process generating the comparable/syngas fuel;
- (D) an estimate of the average and maximum monthly and annual quantity of the waste claimed to be excluded; and
- (E) name and mailing address of the Regional or State Directors to whom the claim was submitted.
- (2) Burning.-The comparable/syngas fuel exclusion for fuels meeting the requirements of paragraphs (a) or (b) and (c)(1) applies only if the fuel is burned in the following units that also shall be subject to Federal/State/local air emission requirements, including all applicable CAA MACT requirements:
- (i) Industrial furnaces as defined in 260.10 of this chapter:
- (ii) Boilers, as defined in 260.10 of this chapter, that are further defined as follows:
- (A)Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes; or
- (B) Utility boilers used to produce electric power, steam, heated or cooled air, or other gases or fluids for sale;
- (iii) Hazardous waste incinerators subject to regulation under Subpart O of parts 264 or 265 of this chapter or applicable CAA MACT standards.
- (iv) Gas turbines used to produce electric power, steam, heated or cooled air, or other gases or fluids for sale. (6/02)
- (3) Blending to Meet the Viscosity Specification.-A hazardous waste blended to meet the viscosity specification shall:
- (i) as generated and prior to any blending, manipulation, or processing meet the constituent and

- heating value specifications of paragraphs (a)(1)(i) and (a)(2); (10/01)
- (ii) be blended at a facility that is subject to the applicable requirements of parts 264 and 265, or 262.34; and
- (iii) not violate the dilution prohibition of 261.38(c)(6).
- (4) Treatment to Meet the Comparable Fuel Exclusion Specifications.
- (i) A hazardous waste may be treated to meet the exclusion specifications of (a)(1) and (2) provided the treatment:
- (A) destroys or removes the constituent listed in the specification or raises the heating value by removing or destroying hazardous constituents or materials:
- (B) is performed at a facility that is subject to the applicable requirements of parts 264 and 265, or 262.34; and
- (C) does not violate the dilution prohibition of 261.38(c)(6).
- (ii) Residuals resulting from the treatment of a hazardous waste listed in Subpart D of this part to generate a comparable fuel remain a hazardous waste.
 - (5) Generation of a Syngas Fuel.
- (i) A syngas fuel can be generated from the processing of hazardous wastes to meet the exclusion specifications of 261.38(b) provided the processing:
- (A) destroys or removes the constituent listed in the specification or raises the heating value by removing or destroying constituents or materials;
- (B) is performed at a facility that is subject to the applicable requirements of parts 264 and 265, or 262.34 or is an exempt recycling unit pursuant to 261.6(c); and
- (C) does not violate the dilution prohibition of 261.38(c)(6).
- (ii) Residuals resulting from the treatment of a hazardous waste listed in Subpart D of this part to generate a syngas fuel remain a hazardous waste.
- (6) Dilution Prohibition for Comparable and Syngas Fuels.- No generator, transporter, handler, or owner or operator of a treatment, storage, or disposal facility shall in any way dilute a hazardous waste to meet the exclusion specifications of (a)(1)(i), (a)(2) or (b) of this section.
- (7) Waste Analysis Plans. The generator of a comparable/syngas fuel shall develop and follow a written waste analysis plan which describes the procedures for sampling and analysis of the hazardous waste to be excluded. The waste analysis plan shall be developed in accordance with the applicable sections of the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846). The plan shall be followed and retained at the facility excluding the waste.
 - (i) At a minimum, the plan must specify:

- (A) the parameters for which each hazardous waste will be analyzed and the rationale for the selection of those parameters;
- (B) the test methods which will be used to test for these parameters;
- (C) the sampling method which will be used to obtain a representative sample of the waste to be analyzed;
- (D) the frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up to date; and
- (E) if process knowledge is used in the waste determination, any information prepared by the generator in making such determination.
- (ii) The waste analysis plan shall also contain records of the following:
- (A) the dates and times waste samples were obtained, and the dates the samples were analyzed;
- (B) the names and qualifications of the person(s) who obtained the samples;
- (C) a description of the temporal and spatial locations of the samples;
- (D) the name and address of the laboratory facility at which analyses of the samples were performed;
- (E) a description of the analytical methods used, including any clean-up and sample preparation methods;
- (F) all quantitation limits achieved and all other quality control results for the analysis (including method blanks, duplicate analyses, matrix spikes, etc.), laboratory quality assurance data, and description of any deviations from analytical methods written in the plan or from any other activity written in the plan which occurred;
- (G) all laboratory results demonstrating that the exclusion specifications have been met for the waste; and
- (H) all laboratory documentation that support the analytical results, unless a contract between the claimant and the laboratory provides for the documentation to be maintained by the laboratory for the period specified in 261.38(c)(11) and also provides for the availability of the documentation to the claimant upon request.
- (iii) Syngas fuel generators shall submit for approval, prior to performing sampling, analysis, or any management of a syngas fuel as an excluded waste, a waste analysis plan containing the elements of (i) above to the appropriate regulatory authority. The approval of waste analysis plans must be stated in writing and received by the facility prior to sampling and analysis to demonstrate the exclusion of a syngas. The approval of the waste analysis plan may contain such provisions and conditions as the regulatory authority deems appropriate.

- (8) Comparable Fuel Sampling and Analysis.
- (i) General. For each waste for which an exclusion is claimed, the generator of the hazardous waste must test for all the constituents on appendix VIII to this part, except those that the generator determines, based on testing or knowledge, should not be present in the waste. The generator is required to document the basis of each determination that a constituent should not be present. The generator may not determine that any of the following categories of constituents should not be present:
- (A) a constituent that triggered the toxicity characteristic for the waste constituents that were the basis of the listing of the waste stream, or constituents for which there is a treatment standard for the waste code in 268.40:
- (B) a constituent detected in previous analysis of the waste;
- (C) constituents introduced into the process that generates the waste; or
- (D) constituents that are byproducts or side reactions to the process that generates the waste. Note to paragraph (c)(8): Any claim under this section must be valid and accurate for all hazardous constituents; a determination not to test for a hazardous constituent will not shield a generator from liability should that constituent later be found in the waste above the exclusion specifications.
- (ii) For each waste for which the exclusion is claimed where the generator of the comparable/syngas fuel is not the original generator of the hazardous waste, the generator of the comparable/syngas fuel may not use process knowledge pursuant to (i) above and must test to determine that all of the constituent specifications of 261.38(a)(2) and 261.38(b) have been met.
- (iii) The comparable/syngas fuel generator may use any reliable analytical method to demonstrate that no constituent of concern is present at concentrations above the specification levels. It is the responsibility of the generator to ensure that the sampling and analysis are unbiased, precise, and representative of the waste. For the waste to be eligible for exclusion, a generator must demonstrate that:
- (A) each constituent of concern is not present in the waste above the specification level at the 95% upper confidence limit around the mean; and
- (B) the analysis could have detected the presence of the constituent at or below the specification level at the 95% upper confidence limit around the mean.
- (iv) Nothing in this paragraph preempts, overrides or otherwise negates the provision in 262.11 of this chapter, which requires any person who generates a solid waste to determine if that waste is a hazardous waste.

- (v) In an enforcement action, the burden of proof to establish conformance with the exclusion specification shall be on the generator claiming the exclusion.
- (vi) The generator must conduct sampling and analysis in accordance with their waste analysis plan developed under (7) above.
- (vii) Syngas fuel and comparable fuel that has not been blended in order to meet the kinematic viscosity specifications shall be analyzed as generated.
- (viii) If a comparable fuel is blended in order to meet the kinematic viscosity specifications, the generator shall:
- (A) analyze the fuel as generated to ensure that it meets the constituent and heating value specifications; and
- (B) after blending, analyze the fuel again to ensure that the blended fuel continues to meet all comparable/syngas fuel specifications.
- (ix) Excluded comparable/syngas fuel must be re-tested, at a minimum, annually and must be retested after a process change that could change the chemical or physical properties of the waste.
- (9) Speculative Accumulation. Any persons handling a comparable/syngas fuel are subject to the speculative accumulation test under 261.2(c)(4).
- (10) Records. The generator must maintain records of the following information on-site:
- (i) all information required to be submitted to the implementing authority as part of the notification of the claim:
- (A) the owner/operator name, address, and RCRA facility ID number of the person claiming the exclusion:
- (B) the applicable EPA Hazardous Waste Codes for each hazardous waste excluded as a fuel; and
- (C) the certification signed by the person claiming the exclusion or his authorized representative.
- (ii) a brief description of the process that generated the hazardous waste and process that generated the excluded fuel, if not the same;
- (iii) an estimate of the average and maximum monthly and annual quantities of each waste claimed to be excluded;
- (iv) documentation for any claim that a constituent is not present in the hazardous waste as required under 261.38(c)(8)(i);
- (v) the results of all analyses and all detection limits achieved as required under 261.38(c)(8);
- (vi) if the excluded waste was generated through treatment or blending, documentation as required under section 261.38(c)(3) or (4);

- (vii) if the waste is to be shipped off-site, a certification from the burner as required under section 261.38(c)(12);
- (viii) A waste analysis plan and the results of the sampling and analysis that includes the following:
- (A) the dates and times waste samples were obtained, and the dates the samples were analyzed;
- (B) the names and qualifications of the person(s) who obtained the samples;
- (C) a description of the temporal and spatial locations of the samples;
- (D) the name and address of the laboratory facility at which analyses of the samples were performed;
- (E) a description of the analytical methods used, including any clean-up and sample preparation methods;
- (F) all quantitation limits achieved and all other quality control results for the analysis (including method blanks, duplicate analyses, matrix spikes, etc.), laboratory quality assurance data, and description of any deviations from analytical methods written in the plan or from any other activity written in the plan which occurred;
- (G) all laboratory analytical results demonstrating that the exclusion specifications have been met for the waste; and
- (H) all laboratory documentation that support the analytical results, unless a contract between the claimant and the laboratory provides for the documentation to be maintained by the laboratory for the period specified in 261.38(c)(11) and also provides for the availability of the documentation to the claimant upon request; and
- (ix) If the generator ships comparable/syngas fuel off-site for burning, the generator must retain for each shipment the following information on-site:
- (A) the name and address of the facility receiving the comparable/syngas fuel for burning;
- (B) the quantity of comparable/syngas fuel shipped and delivered;
 - (C) the date of shipment or delivery;
- (D)a cross-reference to the record of comparable/syngas fuel analysis or other information used to make the determination that the comparable/syngas fuel meets the specifications as required under 261.38(c)(8); and
- (E) a one-time certification by the burner as required under 261.38(c)(12).
- (11) Records Retention. Records must be maintained for the period of three years. A generator must maintain a current waste analysis plan during that three year period.

Appendix VII Basis for Listing Hazardous Waste

- (12) Burner certification. Prior to submitting a notification to the State and Regional Directors, a comparable/syngas fuel generator who intends to ship their fuel off-site for burning must obtain a one-time written, signed statement from the burner:
- (i) certifying that the comparable/syngas fuel will only be burned in an industrial furnace or boiler, utility boiler, or hazardous waste incinerator, as required under paragraph (c)(2);
- (ii) identifying the name and address of the units that will burn the comparable/syngas fuel; and
- (iii) certifying that the state in which the burner is located is authorized to exclude wastes as comparable/syngas fuel under the provisions of 261.38.
- (13) Ineligible Waste Codes. Wastes that are listed because of presence of dioxins or furans, as set out in Appendix VII of Part 261, are not eligible for this exclusion, and any fuel produced from or otherwise containing these wastes remains a hazardous waste subject to full Subtitle C regulation.

Appendix I Representative Sampling Methods (12/92; 12/93)

The methods and equipment used for sampling waste materials will vary with the form and consistency of the waste materials to be sampled. Samples collected using the sampling protocols listed below, for sampling waste with properties similar to the indicated materials, will be considered by the Agency to be representative of the waste.

Extremely viscous liquid - ASTM Standard D140-70 Crushed or powdered material - ASTM Standard D346-75 Soil or rock-like material - ASTM Standard D420-69 Soil-like material - ASTM Standard D1452-65.

Fly Ash-like material - ASTM Standard D2234-76 [ASTM Standards are available from ASTM, 1916 Race Street, Philadelphia, PA 19103]

Containerized liquid wastes - "COLIWASA" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency Publication SW-846,

Liquid waste in pits, ponds, lagoons, and similar reservoirs. - "Pond Sampler" described in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods." la

FOOTNOTE: ^{1a} These methods are also described in Samplers and Sampling Procedures for Hazardous Waste Streams, EPA 600/2-80-018, January 1980.

The Department will consider other methodologies for testing from other sources (such as) i.e., Standard Methods, other Federal Regulations, as long as the proper QA/QC is provided. This manual also contains additional information on application of these protocols.

Appendix II Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)

NOTE: The TCLP (Method 1311) is published in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 260.11. (12/92; 12/93)

Appendix III Chemical Analysis Test Methods

Note: Appropriate analytical procedures to determine whether a sample contains a given toxic constituent are specified in Chapter Two, "Choosing the Correct Procedure" found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 260.11. Prior to final sampling and analysis method selection, the individual should consult the specific section or method described in SW-846 for additional guidance on which of the approved methods should be employed for a specific sample analysis situation. (11/90, 12/92, 12/93)

Appendix IV [Reserved for Radioactive Waste Test Methods]

Appendix V [Reserved for Infectious Waste Treatment Specifications]

Appendix VI [Reserved for Etiologic Agents]

Appendix VII Basis for Listing Hazardous Waste

	0
Hazardous	Hazardous constituents for which listed (11/90, 12/92, 5/96, 9/98)
Waste #	
F001	Tetrachloroethylene, methylene chloride trichloroethylene, 1,1,1-trichloroethane, carbon tetrachloride, chlorinated
	fluorocarbons.
F002	Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane,
	chlorobenzene, 1,1,2-trichloro-1,2,2-trichfluoroethane, ortho-dichlorobenzene, trichlorofluoromethane.
F003	N.A.
F004	Cresols and cresylic acid, nitrobenzene.
F005	Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, 2-ethoxyethanol, benzene, 2-nitropropane.
F006	Cadmium, hexavalent chromium, nickel, cyanide (complexed).
F007	Cyanide (salts).
F008	Cyanide (salts).

Food Cyanide (aslas).		Appendix VII Basis for Listing Hazardous Waste
1912 Cyanide (satis).	F009	Cyanide (salts).
1909 Lexavalent Chromium, cyanide (complexed).	F010	Cyanide (salts).
Hexavalent chromium, cyanide (complexed).	-	Cyanide (salts).
F021 Tetres and pentachbrordibenza-p-disoxins; tetra and pentachbrordibenzofarans; tri- and tetrachbrorphenos and their chlorophenosy derivativae acids, esters, ethers, amine and other salts. F021 Pentas and hexachbrordibenzo p-disoxins; pentas and hexachbrordibenzofurans; pentachbrorophenos and its derivatives. Tetras-penta, and hexachbrordibenzofurans. F023 Tetras-, and pentachbrordibenzo-p-disoxins; tetras- pentas and beacachbrordibenzofurans. F024 Chloromethane, dichloromethane, trichloromethane, and other salts. F024 Chloromethane, dichloromethane, trichloromethane, curbon tetrachbrordise, chlorochylene, 1,1-1,2-trichloroethane, 1,12-dichlorochylene, 1,1-1,1-trichloroethane, 1,12-dichlorochylene, 1,1-1,1-trichloroethane, 1,12-trichlorochylene, 1,1-1,1-trichlorochylene, 1,1-1,1-trichlorochylene, 1,1-1,1-trichlorochylene, pentachbrore, 1,3-butadiene, bexachbrore, 1,3-butadiene, hexachbrore, dichlorochylene, 1,1-1,1-trichlorochylene, pentachbrore, 1,3-butadiene, hexachbrore, 1,3-butadiene, hexachbrore, 1,3-dichlorochylene, 1,1-1,1-trichlorochylene, 1,1-1,1-trich	F012	Cyanide (complexed).
chlorophenoxy derivative acids, esters, ethnes, amine and other salts. P021 Pentas and hexachlorodibezop—dixonis prenta and hexachlorodibezop drans; P022 Tetras, penta, and hexachlorodibezop—dixonis; tetra and hexachlorodibezop drans. P023 Tetras, penta, and hexachlorodibezop—dixonis; tetra and pentachlorodibezop drans. P024 Chloromethane, dichloromethane, citaloromethane and pentachlorodibezop drans. P025 Chloromethane, dichloromethane, citaloromethane, acrob netrachloride, chloroethylene, 1,1-dichloroethane, 1,2-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, 1,1-1,2-tetra-dichlorochune, hexachlorochune, 1,11,2-tetra-dichlorochune, hexachlorochune, epatachlorochune, hexachlorochune, 1,11,2-tetra-dichlorochune, hexachlorochune, epatachlorochune, hexachlorochune, epatachlorochune, hexachlorochune, epatachlorochune, hexachlorochune, epatachlorochune, epatachloroc		
Ponts and hexachlorodilenzo-p dioxins; pents and hexachlorodilenzofurans; pentachlorophenol and its derivatives, 1922 Tetras, pentachlorodilenzofurans; 1923 Tetras, and pentachlorodilenzo-p-dioxins; tetra- and pentachlorodilenzofurans; 1924 Chiorophenovy derivativa exide, seers, ethers, amine and other salts. F024	F020	Tetra- and pentachlorodibenzo-p-dioxins; tetra and pentachlorodi-benzofurans; tri- and tetrachlorophenols and their
F023 Tetra-, pentas-, and hexachiorodibenzo-p-dioxins; tetra-, pentas-, and hexachiorodibenzofurans; F024 chlorophenoxy derivative acids, esters, ethers, amine and other sults. F026 chloromethane, dichloromethane, trichloromethyne, carbon tetrachioride, chloroethylene, 1,1-dichloroethane, 1,2-dichloroethane, indichloroethane, extractive acids, esters, tetra-, and inchlorophylene, pentachioroethane, 1,1-2-trichloroethane, 1,1-2-trichloroethylene, 1,1-1-trichloroethylene, pentachioroethylene, pentachioroethylene, pentachioroethylene, 1,1-2-trichloroethylene, 1,1-1-trichloroethylene, 1,1-1-1-trichloroethylene, 1,1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		chlorophenoxy derivative acids, esters, ethers, amine and other salts.
Tetra-, and pentachlorodibenzo p-dioxins; tetra- and pentachlorodibenzo funcion; tri- and tetrachlorophenos and their chlorophenos (derivative acids, esters, ethers, anima and other states).	F021	Penta- and hexachlorodibenzo-p-dioxins; penta- and hexachlorodibenzofurans; pentachlorophenol and its derivatives.
chlorophenoxy derivative acids, esters, ethers, amine and other salts. Chloromethane, dishloromethane, incilutoromethane, carbon tetrachloride, chloroethylene, 1,1-dishloroethane, 1,2-dishloroethane, inchloroethylene, 1,1-dishloroethane, 1,2-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethane, 1,1-dishloroethylene, 1,1-dishloroethane, 1,1-dishloroethylene, 1,1		
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dichloroethane, trans-1-2-dichloroethylene, 1,1-1-dichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,11-2-trichloroethane, 1,12-2-trichloroethane, texachoro-1,3-butadiene, hexachoro-1,3-butadiene, hexachoro-1,3-butadiene, hexachoroeyclohexane, hexachoro-1,3-butadiene, hexachoroeyclohexane, hexachoroene, dichlorobenzene, 1,2-4-trichloroethane, tetrachloroethane, 1,2-1-trichloroethane, 1,2-1-trichloroethane, 1,2-1-trichloroethane, 1,1-1-1-trichloroethylene, 1,1-1-1-1-trichloroethylene, 1,1-1-1-trichloroethylene, 1,1-1-1-trichloroethylene, 1,1-1-1-trichloroethylene, 1,1-1-1-1-trichloroethylene, 1,1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
richloroethylene, 1.1.1.2-tetra-chloroethane, 1.1.2.2-terachloroethane, tetrachloroethane, phascachloro-1.3-butadiene, hascachloros-(di-G-chloropropene), dichloropropane, dichloropropene, 2-chloro-1.3-butadiene, hascachloros-(di-G-chloropropene), dichloropropane, dichloropropene, 2-chloron-1.3-butadiene, hascachloros-(di-C-chloropropane), dichloropropane, dichloropropene, 2-chloro-1.3-butadiene, hascachloros-(di-C-chloropropane), dichloropropane, pentachlorobenzene, hascachloros-(di-C-chloropropane), dichloropropane, between the characteristic of the characteristic order orde	F024	
hexachloro-1,3-butadiene, hexachloro-2,5-butadiene, hexachloro-2,5-butadiene, hexachloro-2,5-butadiene, hexachloro-2,5-butadiene, hexachloro-2,5-butadiene, dichlorobenzenes, 1,2-butadiene, hexachloro-1,5-butadiene, dichlorobenzenes, 1,2-butadiene, hexachlorobenzene, letrachlorobenzene, pentachlorobenzene, hexachlorobenzene, loluene, naphthalene. Chloromethane; Dichloromethane; (Tarbio tertachloride; Chloromethane; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Larbio-1,1-butadiene; Hexachlorochane; Larbio-1,1-butadiene; Hexachlorochane; Larbio-1,1-butadiene; Hexachloro-1,3-butadiene; Hexachloro-1,3-butadi		
hexachloro-1,3-butatiene, hexachlorocyclopentadiene, hexachlorocyclopentadiene, benzene, chlorobenzene, dichlorobenzene, 1,2-4-richlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorobenzene, petrachlorochenzene, 1,2-Dichloroethane; Irabichloroethane; Irabichlo		
dichlorobenzenes, 1,2.4-trichlorobenzene, tetrachlorobenzene, pentachlorobenzene, koluene, naphthalene. Chloromethane; Dichloromethane; Trichloromethane; Carbon tetrachloride; Chloroethylene; 1,1. Dichloroethane; 1,2. Dichloroethane; 1,1.2.7-tetrachloroethane; 1,1.1.7-tetrachloroethane; 1,1.1.7-tetrachloroethane; 1,1.1.7-tetrachloroethane; 1,		
naphthalene.		
Chloromethane; Dichloromethane; Trichloromethane; Carbon tetrachloride; Chloroethylene; 1,1-Dichlorocthylene; 1,1-Dichloroethylene; 1,1-Dichlorocthylene; 1,1-Dichloroethylene; Platachloroethane; Trichloroethylene; Platachloroethane; Hexachloroethylene; Platachloroethane; Hexachloroethylene; Platachloroethane; Hexachloroethylene; Platachloroethane; Hexachloroethylene; Platachloroethane; Hexachloroethylene; Platachloroethylene;		
Dichloroethane; trans-1,2-Dichloroethylene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; 1,1,2-Trichloroethane; 1,1,2-Trichloroethane; Hexachloroethane; Etrachloroethane; Etrachloroethane; Hexachloroethane; Hexachloroethane; Hexachloroethane; Hexachloroethane; Allyl chloride (3-Chloropropene); Dichloropropene; Dichloropropene; 2-Chloro-1,3-butadiene; Hexachloroethane; Hexachloroethane; Hexachloroethane; Trichlorobenzene; Tothene; Naphtalene. Trichloroethane; Tetrachloroethane; Hexachloroethane; Hexachloroethenzene; 1,2,4-Trichloroethenzene; 1,2,4-Trichloroethane; 1,2,4-Trichloroetha	E025	
Trichloroethylene; 1.1,1,2-Terrachloroethane; [1,1,2,2-Terrachloroethane; Pentachloroethane; Pentachloropropane; Dichloropropone; 2-Chloro-1,3-butadiene; Hexachloro-1,3-butadiene; Hexachloro-propone; Dichloropropone; 2-Chloro-1,3-butadiene; Hexachlorobenzene; Pentachlorobenzene; Pentachlorobenzene; Pentachlorobenzene; Toluene; Naphthalene. Tetra: penta: and hexachlorodibenzo-p-dioxins; tetra: penta: and hexachlorodibenzofurans. Tetra: penta: and hexachlorodibenzo-p-dioxins; tetra: penta: and hexachlorodibenzofurans tetra: penta-penta-and hexachlorodibenzofurans tetra: penta-penta-and hexachlorodibenzofurans tetra: penta-penta-penta-and hexachlorodibenzofurans tetra: penta-penta-penta-and hexachlorodibenzofurans tetra: penta-penta	F025	
Hexachlorochane; Allyl chloride (3-Chloropropene): Dichloropropene; 2-Chloro-1,3-butadiene; Hexachlorochepene; hexachlorochepeneene; 12,4-4—Trichlorobenzene: Inducence in Levachlorochepeneene; 12,4-4—Trichlorobenzene: Inducence in Levachlorodheneenee; Inducence in Levachlorodheneenee: Totuene; Naphthalene. F026 Tetra-, penta-, and hexachlorodheneep-dioxins; tetra-, penta-, and hexachlorodheneoriums; tri, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, annine and other salts. F028 Tetra-, penta-, and hexachlorodheneep-dioxins; tetra-, penta-, and hexachlorodheneoriums; tri, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, annine and other salts. F032 Benz(a) anthracene, benzo(a) pyrene, dibenca-(a,h)-anthracene-indenot(1,2,3-cd) yprene, etheronium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, h		
Hexachloro-1,3-butadiene; Hexachlorocyclopentadiene; Benzene; Chlorobenzene; Colleone; 1,24-trichlorobenzene; Terrathorbenzene; Tolleone; Naphthalene. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. F032 Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12/92). Benz(a)anthracene, benzo(a)pyrene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). R001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dimitrophenol, trichlorophenols, tetrachlorophenols, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dimitrophenol, trichlorophenols, tetrachlorophenols, 2-dimitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, accaphthalene. R002 Hexavalent chromium, lead H		
Trichlorobenzene; Tetrachlorobenzene; Pentachlorobenzene; Hexachlorobenzene; Toluene; Naphthalene. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and pentachlorophenols and their chlorophenoxy derivative acids, setters, demine and other salts. Benz(a) penta-, benz-da) pyrene, dibenz-(a,b)-anthracene, indenot(1,2,3-cd) pyrene, dispensal-, benz-da-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, hexa-heptachlorodibenzo-p-dioxins, hexa-heptachlorodibenzo-p-dioxins, hexa-heptachlorodibenzo-p-dioxins, hexa-heptachlorodibenzo-p-dioxins, hexa-heptachlorodibenzo-p-dioxins, hexa-heptachloro		
Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Benz(a)amthracene, benzo(a)pyrene, dibenz(a,h)-amthracene, indeno(1,2,3-ed)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12/92). Benz(a)amthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-ed)pyrene, naphthalaene, arsenic, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). Root Pentachlorophenols, tetrachlorophenol, 2-d-dintrophenol, cresotie, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenghthalene. Root Hexavalent chromium, lead. Root Hexavalent chromi		
Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Benz(a)anthracene, henzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-ed)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12,92). Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-ed)pyrene, naphthalene, arsenic, chromium (12/92). Fo35 Arsenic, chromium, lead (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). Root Benzene, benzo(a)pyrene, chrysene, lead, chromium, lead, leavalent chromium, lead Root Hexavalent chromium, lead Root Hexavalent chromium, lead. Root Hexavalent chromi	F026	
pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12/92). Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). Arsenic, chromium, lead (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). Kool Pentachlorophenol, plenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenol, plenol, 2-chlorophenol-pen-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenol, plenol, 2-chlorophenol-pen-cresol, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, accaphthalene. Koo2 Hexavalent chromium, lead. Hexavalent chromium, lead. Hexavalent chromium, lead. Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. Koll Acctonitrile, acrylamide. Benzyl chloride, chl		
Tetra-, penta-, and hexachlorodibenzo-p-dioxins; tetra-, penta-, and hexachlorodibenzofurans; tri-, tetra-, and pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorodibenzofurans (1292) Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (1292). Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (1292). F035	1027	
pentachlorophenols and their chlorophenoxy derivative acids, esters, ethers, amine and other salts. Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, bexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12/92). Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). K001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2-d-dinitrophenol, cresoste, chrysene, naphthalene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead Hexavalent chromium, lead Hexavalent chromium, lead. K003 Hexavalent chromium, lead. K006 Hexavalent chromium. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acylonitrile, acctonitrile, hydrocyanic acid. K012 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. Benzyl chloride, chlorobenzene, toluene, benzotrichloride, hexachlorobethane, perchloroethylene. Epichlorophydrin, chlorochers [bis(chloromethyl) ether and bis (2-chlorocthyl) ethers], trichloroptopane, dichloropropanols. Ediblenorpopanols. Ediblenorpopanols. Ediblenore chloride. Ediblenorpopanols. Ediblenorpopanols.	F028	
Benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)-anthracene, indeno(1,2,3-cd)pyrene, pentachlorophenol, arsenic, chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins (12/92). F035		
chromium, tetra-, penta-, hexa-, heptachlorodibenzo-p-dioxins, tetra-, penta-, hexa-, heptachlorodibenzofurans (12/92) Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). F037 Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). F038 Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). F039 All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). K001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead K003 Hexavalent chromium, lead. K004 Hexavalent chromium, lead. K005 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K007 Cyanide (complexed), hexavalent chromium. K007 Cyanide (complexed), hexavalent chromium. K008 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acylonitrile, acetonitrile, hydrocyanic acid. K014 Acetonitrile, acrylonitrile, acetonitrile, kydrocyanic acid, erylonitrile, acetonitrile, kydrocyanic acid, acrylonitrile, acetonitrile, kydrocyanic acid, acrylonitrile, acetonitrile, bydrocyanic acid, erylonitrile, acetonitrile, bydrocyanic acid, acrylonitrile, a	F032	
F034 Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). F035 Arsenic, chromium, lead (12/92). F037 Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). F038 Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). F039 All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). K001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead K003 Hexavalent chromium, lead K004 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K007 Cyanide (complexed), hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K012 Acetonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobehzene, toluene, benzotrichloride, hexachloroethane, perchloroethylene. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloropethane perchloroethylene. K017 Epichlorophydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane, trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane) and 1,1,1,2-tetr		
Benz(a)anthracene, benzo(k)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, naphthalene, arsenic, chromium (12/92). F037		
F035 Arsenic, chromium, lead (12/92). F037 Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). F038 Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). F039 All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). F039 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. F002 Hexavalent chromium, lead	F034	
Benzene, benzo(a)pyrene, chrysene, lead, chromium (12/92). F038 Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). F039 All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). R001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, phenol, 3,2-d-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. R002 Hexavalent chromium, lead R003 Hexavalent chromium, lead. R004 Hexavalent chromium, lead. R006 Hexavalent chromium, lead. R006 Hexavalent chromium. R007 Cyanide (complexed), hexavalent chromium. R008 Hexavalent chromium. R009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. R010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. R011 Acrylonitrile, acetonitrile, hydrocyanic acid. R012 Acetonitrile, acrylamide. R014 Acetonitrile, acrylamide. R015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride, hexachloroethane, perchloroethylene. R016 Hexachlorobenzene, bexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. R018 12-dichloroethane, trichloroethylene, hexachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, chloride, chloroform, vinyl chloride, vinylidene chloride, chloride, chloroform, vinyl chloride, vinylidene chloride. R020 Ant		naphthalene, arsenic, chromium (12/92).
F038 Benzene, benzo(a)pyrene chrysene, lead, chromium (12/92). All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). K001 Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead K003 Hexavalent chromium, lead. K004 Hexavalent chromium, lead. K005 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K012 Actionitrile, acrylamide. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, earbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, chloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, chloroform, vinyl	F035	Arsenic, chromium, lead (12/92).
All constituents for which treatment standards are specified for multi-source leachate (wastewaters and nonwastewaters) under 268.43(a), Table CCW (12/92). Pentachlorophenol, phenol, 2-chlorophenol, p-chlorom-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002		
Nonwastewaters) under 268.43(a), Table CCW (12/92).		
Pentachlorophenol, phenol, 2-chlorophenol, p-chloro-m-cresol, 2,4-dimethylphenyl, 2,4-dinitrophenol, trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, lucranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002	F039	
trichlorophenols, tetrachlorophenols, 2,4-dinitrophenol, creosote, chrysene, naphthalene, fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead. K003 Hexavalent chromium, lead. K004 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, carbon tetrachloridenes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane, trichloroethylene, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.		
benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, benz(a)anthracene, dibenz(a)anthracene, acenaphthalene. K002 Hexavalent chromium, lead K003 Hexavalent chromium, lead. K004 Hexavalent chromium, lead. K005 Hexavalent chromium, lead. K006 Hexavalent chromium. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride, hexachloroethane, perchloroethylene. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethyle ethyl ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethylene, tetrachloroethane, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.	K001	
k002 Hexavalent chromium, lead K003 Hexavalent chromium, lead. K004 Hexavalent chromium. K005 Hexavalent chromium. K006 Hexavalent chromium, lead. K006 Hexavalent chromium, lead. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, letrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, tetrachloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.		
K002 Hexavalent chromium, lead.		
K003Hexavalent chromium, lead.K004Hexavalent chromium.K005Hexavalent chromium.K006Hexavalent chromium.K007Cyanide (complexed), hexavalent chromium.K008Hexavalent chromium.K009Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid.K010Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.K011Acrylonitrile, acetonitrile, hydrocyanic acid.K013Hydrocyanic acid, acrylonitrile, acetonitrile.K014Acetonitrile, acrylamide.K015Benzyl chloride, chlorobenzene, toluene, benzotrichloride.K016Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.K017Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.K0181,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.K019Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K020Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K021Antimony, carbon tetrachloride, chloroform.	17000	
K004Hexavalent chromium.K005Hexavalent chromium, lead.K006Hexavalent chromium.K007Cyanide (complexed), hexavalent chromium.K008Hexavalent chromium.K009Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.K010Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.K011Acrylonitrile, acetonitrile, hydrocyanic acid.K013Hydrocyanic acid, acrylonitrile, acetonitrile.K014Acetonitrile, acrylamide.K015Benzyl chloride, chlorobenzene, toluene, benzotrichloride.K016Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.K017Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.K0181,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.K019Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K020Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K021Antimony, carbon tetrachloride, chloroform.		
K005 Hexavalent chromium, lead. K006 Hexavalent chromium. K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.		· · · · · · · · · · · · · · · · · · ·
K006Hexavalent chromium.K007Cyanide (complexed), hexavalent chromium.K008Hexavalent chromium.K009Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid.K010Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde.K011Acrylonitrile, acetonitrile, hydrocyanic acid.K013Hydrocyanic acid, acrylonitrile, acetonitrile.K014Acetonitrile, acrylamide.K015Benzyl chloride, chlorobenzene, toluene, benzotrichloride.K016Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene.K017Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols.K0181,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene.K019Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K020Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride.K021Antimony, carbon tetrachloride, chloroform.		
 K007 Cyanide (complexed), hexavalent chromium. K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		· · · · · · · · · · · · · · · · · · ·
 K008 Hexavalent chromium. K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K009 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid. K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K010 Chloroform, formaldehyde, methylene chloride, methyl chloride, paraldehyde, formic acid, chloroacetaldehyde. K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K011 Acrylonitrile, acetonitrile, hydrocyanic acid. K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K013 Hydrocyanic acid, acrylonitrile, acetonitrile. K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K014 Acetonitrile, acrylamide. K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K015 Benzyl chloride, chlorobenzene, toluene, benzotrichloride. K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K016 Hexachlorobenzene, hexachlorobutadiene, carbon tetrachloride, hexachloroethane, perchloroethylene. K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 K017 Epichlorohydrin, chloroethers [bis(chloromethyl) ether and bis (2-chloroethyl) ethers], trichloropropane, dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
dichloropropanols. K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.		
 K018 1,2-dichloroethane, trichloroethylene, hexachlorobutadiene, hexachlorobenzene. K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.]	
K019 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.	K018	
 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 		
 vinylidene chloride. K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 	1	
 K020 Ethylene dichloride, 1,1,1-trichloroethane, 1,1,2-trichloroethane, tetrachloroethanes (1,1,2,2-tetrachloroethane and 1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform. 	1	
1,1,1,2-tetrachloroethane), trichloroethylene, tetrachloroethylene, carbon tetrachloride, chloroform, vinyl chloride, vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.	K020	
vinylidene chloride. K021 Antimony, carbon tetrachloride, chloroform.		
K021 Antimony, carbon tetrachloride, chloroform.	1	
	K021	
	K022	

	Appendix VII Basis for Listing Hazardous Waste
K023	Phthalic anhydride, maleic anhydride.
K024	Phthalic anhydride, 1,4-naphthoquinone.
K025	Meta-dinitrobenzene, 2,4-dinitrotoluene.
K026	Paraldehyde, pyridines, 2-picoline.
K027	Toluene diisocyanate, toluene-2, 4-diamine.
K028	1,1,1-trichloroethane, vinyl chloride.
K029	1,2-dichloroethane, 1,1,1-trichloroethane, vinyl chloride, vinylidene chloride, chloroform.
K030	Hexachlorobenzene, hexachlorobutadiene, hexachloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane,
	ethylene dichloride.
K031	Arsenic.
K032	Hexachlorocyclopentadiene.
K033	Hexachlorocyclopentadiene.
K034	Hexachlorocyclopentadiene.
K035	Creosote, chrysene, naphthalene, fluoranthene benzo(b) fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd) pyrene,
11000	benzo(a)anthracene, dibenzo(a)anthracene, acenaphthalene.
K036	Toluene, phosphorodithioic and phosphorothioic acid esters.
K037	Toluene, phosphorodithioic and phosphorothioic acid esters.
K038	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.
K039	Phosphorodithioic and phosphorothioic acid esters.
K040	Phorate, formaldehyde, phosphorodithioic and phosphorothioic acid esters.
K040	Toxaphene.
K041	Hexachlorobenzene, ortho-dichlorobenzene.
K042	2,4-dichlorophenol, 2,6-dichlorophenol, 2,4,6-trichlorophenol.
K044	N.A.
K044 K045	N.A. N.A.
K045 K046	Lead.
K040 K047	N.A.
K047 K048	
	Hexavalent chromium, lead.
K049	Hexavalent chromium, lead.
K050	Hexavalent chromium.
K051	Hexavalent chromium, lead.
K052	Lead.
K060	Cyanide, napthalene, phenolic compounds, arsenic.
K061	Hexavalent chromium, lead, cadmium.
K062	Hexavalent chromium, lead.
K064	Lead, cadmium.
K065	Lead, cadmium
K066	Lead, cadmium
K069	Hexavalent chromium, lead, cadmium.
K071	Mercury.
K073	Chloroform, carbon tetrachloride, hexachloroethane, trichloroethane, tetrachloroethylene, dichloroethylene, 1,1,2,2-
	tetrachloroethane.
K083	Aniline, diphenylamine, nitrobenzene, phenylenediamine.
K084	Arsenic.
K085	Benzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzenes, pentachlorobenzene, hexachlorobenzene, benzyl
	chloride.
K086	Lead, hexavalent chromium.
K087	Phenol, naphthalene.
K088	Cyanide (complexes).
K090	Chromium.
K093	Phthalic anhydride, maleic anhydride.
K094	Phthalic anhydride.
K095	1,1,2-trichloroethane, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane.
K096	1,2-dichloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane.
K097	Chlordane, heptachlor.
K098	Toxaphene.
K099	2,4-dichlorophenol, 2,4,6-trichlorophenol.
K100	Hexavalent chromium, lead, cadmium.
K101	Arsenic.
K102	Arsenic.
K103	Aniline, nitrobenzene, phenylenediamine.
K104	Aniline, benzene, diphenylamine, nitrobenzene, phenylenediamine.
K105	Benzene, monochlorobenzene, dichlorobenzenes, 2,4,6-trichlorophenol.
K106	Mercury.
K107	1,1-Dimethylhydrazine (UDMH) (12/92).
K107	1,1-Dimethylhydrazine (UDMH) (12/92).
K109	1,1-Dimethylhydrazine (UDMH (12/92).
K109	1,1-Dimethylhydrazine (UDMH (12/92).
KIIU	1,1-Dimonyinyutazino (ODIVIII (12172).

	Appendix VIII Hazardous Constituents
K111	2,4-Dinitrotoluene.
K112	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K113	2,4-Toluenediamine, o-toluidine, p-toluidine, aniline.
K114	2,4-Toluenediamine, o-toluidine, p-toluidine.
K115	2,4-Toluenediamine.
K116	Carbon tetrachloride, tetrachloroethylene, chloroform, phosgene.
K117	Ethylene dibromide.
K118	Ethylene dibromide.
K123	Ethylene thiourea.
K124	Ethylene thiourea.
K125	Ethylene thiourea.
K126	Ethylene thiourea.
K131	Dimethyl sulfate, methyl bromide.
K132	Methyl bromide.
K136	Ethylene dibromide.
K140	2,4,6-Tribromophenol. (11/99)
K141	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene,
	indeno(1,2,3-cd)pyrene. (12/93)
K142	Benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene,
	indeno(1,2,3-cd)pyrene.(12/93)
K143	Benzene, benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene. (12/93)
K144	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene.
	(12/93)
K145	Benzene, benz(a)anthracene, benzo(a)pyrene, dibenz(a,h)anthracene, naphthalene. (12/93)
K147	Benzene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene,
	indeno(1,2,3-cd)pyrene. (12/93)
K148	Benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene,
	indeno(1,2,3-cd)pyrene. (12/93)
K149	Benzotrichloride, benzyl chloride, chloroform, chloromethane, chlorobenzene, 1,4-dichlorobenzene,
	hexachlorobenzene, pentachlorobenzene, 1,2,4,5-tetrachlorobenzene, toluene. (12/93)
K150	Carbon tetrachloride, chloroform, chloromethane, 1,4-dichlorobenzene, hexachlorobenzene, pentachlorobenzene,
	1,2,4,5-tetrachlorobenzene, 1,1,2,2-tetrachloroethane, tetrachloroethylene, 1,2,4-trichlorobenzene. (12/93)
K151	Benzene, carbon tetrachloride, chloroform, hexachlorobenzene, pentachlorobenzene, toluene, 1,2,4,5-
	tetrachlorobenzene, tetrachloroethylene. (12/93)
K156	Benomyl, carbaryl, carbendazim, carbofuran, carbosulfan, formaldehyde, methylene chloride, triethylamine. (5/96)
K157	Carbon tetrachloride, formaldehyde, methyl chloride, methylene chloride, pyridine, triethylamine. (5/96)
K158	Benomyl, carbendazim, carbofuran, carbosulfan, chloroform, methylene chloride. (5/96)
K159	Benzene, butylate, eptc, molinate, pebulate, vernolate. (5/96)
K160	Benzene, butylate, eptc, molinate, pebulate, vernolate. (5/96)
K161	Antimony, arsenic, metam-sodium, ziram. (5/96)
K169	Benzene. (8/00)
K170	Benzo(a)pyrene, dibenz(a,h)anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, 3-
	methylcholanthrene, 7,12-dimethylbenz(a)anthracene. (8/00)
K171	Benzene, arsenic. (8/00)
K172	Benzene, arsenic. (8/00)
K174	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD), 1,2,3,4,6,7,8- Heptachlorodibenzofuran
	(1,2,3,4,6,7,8-HpCDF), 1,2,3,4,7,8,9- Heptachlorodibenzofuran (1,2,3,6,7,8,9-HpCDF), HxCDDs (All
	Hexachlorodibenzo-p-dioxins), HxCDFs (All Hexachlorodibenzofurans), PeCDDs (All Pentachlorodibenzo-p-
	dioxins), OCDD (1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin, OCDF (1,2,3,4,6,7,8,9-Octachlorodibenzofuran),
	PeCDFs (All Pentachlorodibenzofurans), TCDDs (All tetrachlorodi-benzo-p-dioxins), TCDFs (All
	tetrachlorodibenzofurans). (6/02)
K175	Mercury (6/02)
K176	Arsenic, Lead (6/03)
K177	Antimony (6/03)
K177	Thallium (6/03)
K900	Tributyltin, Tributyltin Oxide, Tributyltin Chloride, Tributyltin Hydroxide, Tributyltin Bromide, Tributyltin Acetate,
1000	Tributyltin Fluoride, Triethyltin, Triethyltin Chloride (6/02)
L	1 month interior in the manufacture (0/02)

N.A.= Waste is hazardous because it fails the test for the characteristics of ignitability, corrosivity, or reactivity.

Appendix VIII Hazardous Constituents				
Common name	Chemical abstracts name (9/98)	CAS#		
A2213 (5/96)	Ethanimidothioic acid, 2- (dimethylamino) -N-hydroxy -2-oxo-, methyl ester	30558-43-1		
Acetonitrile	Same	75-05-8		
Acetophenone	Ethanone, 1-phenyl-	98-86-2		
2-Acetylaminefluarone	Acetamide, N-9H-fluoren-2-yl-	53-96-3		
Acetyl chloride	Same	75-36-5		

Appendix VIII Hazardoi		
Common name	Chemical abstracts name (9/98)	CAS#
1-Acetyl-2-thiourea	Acetamide, N-(aminothioxomethyl)-	591-08-2
Acrolein	2-Propenal	107-02-8
Acrylamide	2-Propenamide	79-06-1
Acrylonitrile	2-Propenenitrile	107-13-1
Aflatoxins	Same	1402-68-2
Aldicarb	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime	116-06-3
Aldicarb sulfone (5/96)	Propanal, 2-methyl-2-(methylsulfonyl), O-[(methylamino) carbonyl] oxime	1646-88-4
Aldrin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-10-hexachloro-1,4,4a,5,8,8a-	309-00-2
	hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha, 8abeta)-	
Allyl alcohol	2-Propen-1-ol	107-18-6
Allyl chloride	1-Propane, 3-chloro	107-18-6
Aluminum phosphide	Same	20859-73-8
4-Aminobiphenyl	[1,1'-Biphenyl]-4-amine	92-67-1
5-(Aminomethyl)-3-isoxazolol	3(2H)-Isoxazolone, 5-(aminomethyl)-	2763-96-4
4-Aminopyridine	4-Pyridinamine	504-24-5
Amitrole	1H-1,2,4-Triazol-3-amine	61-82-5
Ammonium vanadate	Vanadic acid, ammonium salt	7803-55-6
Aniline	Benzenamine	62-53-3
Antimony	Same	7440-36-0
Antimony compounds, N.O.S.		
Aramite Aramite	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8
Arsenic	Same	7440-38-2
Arsenic compounds, N.O.S. 1		11.0 50 2
Arsenic acid	Arsenic acid H ₃ AsO ₄	7778-39-4
Arsenic pentoxide	Arsenic oxide As ₂ O ₅	1303-28-2
Arsenic trioxide	Arsenic oxide As ₂ O ₃	1327-53-3
Auramine	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl	492-80-8
Azaserine	L-Serine, diazoacetate (ester)	115-02-6
Barban (5/96)	Carbamic acid, (3-chlorophenyl) -, 4-chloro-2-butynyl ester	101-27-9
Barium	Same	7440-39-3
Barium compounds, N.O.S. 1	Same	7440-39-3
Barium compounds, N.O.S. Barium cyanide	Same	542-62-1
Bendiocarb (5/96)		22781-23-3
Bendiocarb (5/96) Bendiocarb phenol (5/96)	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate 1,3-Benzodioxol-4-ol, 2,2-dimethyl-,	
Benomyl (5/96)	Carbamic acid, [1- [(butylamino) carbonyl]- 1H-benzimidazol-2-yl] -, methyl	22961-82-6 17804-35-2
Benomy (3/70)	ester	17001332
Benz[c]acridine	Same	225-51-4
Benz[a]anthracene	Same	56-55-3
Benzal chloride	Benzene, (dichloromethyl)-	98-87-3
Benzene	Same	71-43-2
Benzenearsonic acid	Arsonic acid, phenyl-	98-05-5
Benzidine	[1,1'-Biphenyl]-4,4'-diamine	92-87-5
Benzo[b]fluoranthene		205-99-2
	Benz[e]acephenanthrylene	205-99-2
Benzo[j]fluoranthene Benzo(k)fluoranthene (5/96)	Same	
	Same	207-08-9
Benzo[a]pyrene	Same	50-32-8
p-Benzoquinone	2,5-Cyclohexadiene-1,4-dione	106-51-4
Benzotrichloride	Benzene, (trichloromethyl)-	98-07-7
Benzyl chloride	Benzene, (chloromethyl)-	100-44-7
Beryllium powder	Same	7440-41-7
Beryllium compounds, N.O.S.	D' 'P' 111/4 d' P' 1 3' 151'	100 51 5
Bis (pentamethylene)-thiuram tetrasulfide.	Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis-	120-54-7
Bromoacetone	2-Propanone, 1-bromo-	598-31-2
Bromoform	Methane, tribromo-	75-25-2
4-Bromophenyl phenyl ether	Benzene, 1-bromo-4-phenoxy-	101-55-3
Brucine	Strychnidin-10-one, 2,3-dimethoxy-	357-57-3
Butyl benzyl phthalate	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	85-68-7
Butylate (5/96)	Carbamothioic acid, bis (2-methylpropyl)-, S-ethyl ester	2008-41-5
Cacodylic acid	Arsinic acid, dimethyl-	75-60-5
Cadmium	Same	7440-43-9
Cadmium compounds, N.O.S. 1		
Calcium chromate	Chromic acid H ₂ CrO ₄ , calcium salt	13765-19-0
Calcium cinomate	emonie dela 1120104, caretam sart	10,00 1,0

Amendia VIII Hagardan	Appendix VIII Hazard	lous Constituent
Appendix VIII Hazardou	s Constituents	
Common name	Chemical abstracts name (9/98)	CAS#
Carbaryl (5/96)	1-Naphthalenol, methylcarbamate	63-25-2
Carbendazim (5/96)	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	10605-21-7
Carbofuran (5/96)	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate	1563-66-2
Carbofuran phenol (9/96)	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-	1563-38-8
Carbon disulfide	Same	75-15-0
Carbon oxyfluoride	Carbonic difluoride	353-50-4
Carbon tetrachloride	Methane, tetrachloro-	56-23-5
Carbosulfan (6/96)	Carbamic acid, [(dibutylamino) thio] methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester	55285-14-8
Chloral	Acetaldehyde, trichloro-	75-87-6
Chlorambucil	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-	305-03-3
Chlordane	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7 a-hexahydro-	57-74-9
Chlordane (alpha and gamma isomers)		
Chlorinated benzenes, N.O.S. ¹		
Chlorinated ethane, N.O.S. ¹		
Chlorinated fluorocarbons,		
N.O.S. 1		
Chlorinated naphthalene, N.O.S. ¹		
Chlorinated phenol, N.O.S. ¹		
Chlornaphazin	Naphthalenamine, N,N'-bis(2-chloroethyl)-	494-03-1
Chloroacetaldehyde	Acetaldehyde, chloro-	107-20-0
Chloroalkyl ethers, N.O.S. ¹		
p-Chloroaniline	Benzenamine, 4-chloro-	106-47-8
Chlorobenzene	Benzene, chloro-	108-90-7
Chlorobenzilate	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester	510-15-6
p-Chloro-m-cresol	Phenol, 4-chloro-3-methyl-	59-50-7
2-Chloroethyl vinyl ether	Ethene, (2-chloroethoxy)-	110-75-8
Chloroform	Methane, trichloro-	67-66-3
Chloromethyl methyl ether	Methane, chloromethoxy -	107-30-2
beta-Chloronaphthalene	Naphthalene, 2-chloro-	91-58-7
o-Chlorophenol	Phenol, 2-chloro-	95-57-8
1-(o-Chlorophenyl)thiourea	Thiourea, (2-chlorophenyl)-	5344-82-1
Chloroprene	1,3-Butadiene, 2-chloro-	126-99-8
3-Chloropropionitrile	Propanenitrile, 3-chloro-	542-76-7
Chromium	Same	7440-47-3
Chromium compounds, N.O.S. ¹		
Chrysene	Same	218-01-9
Citrus red No. 2	2-Naphthalenol, 1-[(2,5-dimethoxyphenyl)azo]-	6358-53-8
Coal tar creosote	Same	8007-45-2
Copper cyanide	Copper cyanide CuCN	544-92-3
Copper dimethyldithiocarbamate	Copper, bis(dimethylcarbamodithioato-S,S')-, (6/96)	137-29-1
Creosote	Same Phone I methyl	1210 77 2
Cresol (Cresylic acid) Crotonaldehyde	Phenol, methyl- 2-Butenal	1319-77-3 4170-30-3
m-Cumenyl methylcarbamate	Phenol, 3-(methylethyl)-, methyl carbamate (5/96)	64-00-6
Cyanides (soluble salts and complexes) N.O.S. ¹	rnenot, 3-(methylethyl)-, methyl carbamate (3/90)	04-00-0
Cyanogen	Ethanedinitrile	460-19-5
Cyanogen bromide	Cyanogen bromide (CN)Br	506-68-3
Cyanogen chloride	Cyanogen chloride (CN)B1 Cyanogen chloride (CN)C1	506-77-4
Cycasin	beta-D-Glucopyranoside, (methyl-ONN-azoxy)methyl	14901-08-7
Cycloate	Carbamothioic acid, cyclohexylethyl-, S-ethyl ester	1134-23-2
2-Cyclohexyl-4,6-dinitrophenol	Phenol, 2-cyclohexyl-4,6-dinitro-	131-89-5
Cyclophosphamide	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide	50-18-0
2,4-D	Acetic acid, (2,4-dichlorophenoxy)-	94-75-7
2,4-D, salts, esters	, (=, : •	2.757
Daunomycin	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-	20830-81-3
	hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-	
Dazomet (5/96)	2H-1,3,5-thiadiazine-2-thione,tetrahydro-3,5-dimethyl	533-74-4
DDD	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	72-54-8
	Benzene, 1,1'-(dichloroethenylidene)bis[4-chloro-	72-55-9
DDE	Denzene, 1,1 -(dichioroethenyhdene)bis[4-chioro-	12 33 7
DDE DDT	Benzene, 1,1'-(dictionoroetherlyfidene)bis[4-chloro-	50-29-3

Dibenzia_labridine	Appendix VIII Hazardous		
Diberar[a].picritime	Common name	Chemical abstracts name (9/98)	
Diberzo Alphyres Dibezzo Di	Dibenz[a,h]acridine		226-36-8
194-59-2 Dibenzoj(a, plyrene 194-59-2 Dibenzoj(a, plyrene 192-65-4			
Dicheroz alpyrene Naphthof 1,2,3,4-tel chryspee 192-65-4		Same	
Dibenzola Julywene	7H-Dibenzo[c,g]carbazole		
Dibezofa Jipyrene			
12Dibromo-3-chloropopane Propane, 12-dibromo-3-chloro- 54-17-12	Dibenzo[a,h]pyrene		
1.2-Bernzenelicarboxylic acid, dibutyl ester 54.74-2			
Deckhorobenzene			
Benzene Jd. dichloro-			
Polichforobenzene Benzene, 1.4-dichloro- 2531-22-6 33-Dichlorobenzidine 1.1.1-Biphenyll - 4.3-diamine, 3.3-dichloro- 2531-22-6 33-Dichlorobenzidine 1.1.1-Biphenyll - 4.3-diamine, 3.3-dichloro- 91-94-1 4.1-Dichloro-Juttene 2.501-22-6 1.1-Dichlorochtylene 2.502-3-3-0-2 1.1-Dichloropenehylene 2.502-3-3-0-2 2.1-Dichloropenehylene 2.502-3-0-2 2.1-Dichloropenehylene 2.50			
Dichlorobenzene, N.O.S. Senzene, dichloro- 2521-22-6		, ,	
13.1-Dichlorobenzidine			
1.4-Dichloro-2-butene 2.5 Butene, 1.4-dichloro- 75:4-14-0 Dichlorodifluoromethane Methane, dichlorodifluoro- 75:3-18-0 Dichlorodifluoromethane Methane, dichlorodifluoro- 75:3-3-4 2.5 Dichlorodifylene 25323-30-2 1.1-Dichlorothylene Ethene, 1.1-dichloro- 75:3-4 1.2-Dichlorodifylene 156:60-5 Dichlorothyle ther Ethene, 1.1-dichloro- 116:60-5 Dichloromethoy ether Ethene, 1.1-dichloro- 118:60-0 Dichloromethoy ether Dichloromethoy ethane 118:60-0 Dichloromethoy ethane 118:60-0 118:60-0 Dichloromethoy ethane Methane, oxybis[chloro- 118:41-1 2.4-Dichlorophenol Pencol, 2.4-dichloro- 542:81 2.4-Dichlorophenol Pencol, 2.4-dichloro- 87:65-0 Dichlorophenol Pencol, 2.4-dichloro- 87:65-0 Dichlorophenol Arsonous dichloride, phenyl- 696:28-6 Dichloropropane, N.O.S. Propane, dichloro- 26638-3-3 Dichloropropane, N.O.S. Propane, dichloro- 26638-3-3 Dichloropropene, N.O.S. 1-Propene, dichloro- 2638-3-3 Dichloropropene, N.O.S. 1-Propene, dichloro- 2638-2-3 Dichloropropene 2.7:36-Dimethanonaphth[2.3-bloxirane, 3.45,6.9.9-hexachloro- 2632-23-8 Dichloropropene 2.7:36-Dimethanonaphth[2.3-bloxirane, 3.45,6.9.9-hexachloro- 2632-23-8 Dichlylperophy			
Dichloromethane Methane, dichlorodifluoro- 75-71-8	/		
Dichloroethylene 25323-30-2			
1.1-Dichloroethylene			
12.Dichloroethylene			25323-30-2
Dichloroschyl ether			
Dichloroisopropyl ether Propane, 2,2"-oxybis[2-chloro- 111-91-1			
Dichloromethoxy ethane Ethane, 1,1-' methylenebis(oxy) bis[2-chloro- 542-88-1 2,4-Dichlorophenol Phenol, 2,4-dichloro- 120-83-2 2,6-Dichlorophenol Phenol, 2,4-dichloro- 120-83-2 2,6-Dichlorophenol Phenol, 2,4-dichloro- 87-65-0 2,6-Dichlorophenol Phenol, 2,6-dichloro- 662-84-6 Dichloropropane, N.O.S.' Propane, dichloro- 26638-19-7 Dichloropropane, N.O.S.' Propane, dichloro- 26545-73-3 Dichloropropane, N.O.S.' Propane, dichloro- 26545-73-3 Dichloropropene, N.O.S.' Propane, dichloro- 26545-73-3 Dichloropropene 1-Propene, dichloro- 26545-73-3 Dichloropropene 1-Propene, 1,3-dichloro- 26545-73-3 Dichloropropene 1-Propene, 1,3-dichloro- 60-57-1			
Dichloromethyl ether			
2.4-Dichlorophenol		Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-	
Phenol. 2,6-dichloro-			
Dichlorophenylarsine Arsonous dichloride, phenyl- 696-28-6 Dichloropropane, N.O.S. 1 Propane, dichloro- 26638-19-7 Dichloropropene, N.O.S. 1 Propane, dichloro- 26548-73-3 Dichloropropene, N.O.S. 1 1-Propene, dichloro- 26952-23-8 Dieldrin 1-Propene, dichloro- 542-75-6 Dieldrin 2,73-6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 60-57-1 1a,2,2a,3,66a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta, 6aalpha,7beta,7aalpha)- 1464-53-5 1,23,4-Diepoxybutane 2,2*-Bioxirane 1464-53-5 Diethylarsine Arsine, diethyl- 692-42-2 Diethyleneoxide 1,4-Dioxane 123-91-1 1,4-Diethylhoenoxide 1,4-Dioxane 123-91-1 1,4-Diethyl phithalate 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 1,0-Diethyl S-methyl Hydrazine, 1,2-diethyl- 1615-80-1 1,2-Birly phithalate 1,2-Benzenedicarboxylic acid, diethyl s-mitrophenyl phosphate 1615-80-1 Diethyl p-nitrophenyl phosphate Phosphoro-dithioic acid, Go-Q-diethyl ester 311-45-5 Diethyl p-nitrophenyl phosphate 1,2-Benze	2,4-Dichlorophenol	Phenol, 2,4-dichloro-	120-83-2
Propane, dichloro-	2,6-Dichlorophenol	Phenol, 2,6-dichloro-	87-65-0
Propanol, dichloro- 26545-73-3	Dichlorophenylarsine	Arsonous dichloride, phenyl-	696-28-6
Propanol, dichloro- 26545-73-3			26638-19-7
1-Propene, dichloro-			26545-73-3
1.3-Dichloropropene			
2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta, 6aalpha,7beta,7aalpha)- 1464-53-5 Diethylarsine			542-75-6
1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- 1,2:3,4-Diepoxybutane 2,2:Bioxirane 1464-53-5 1,4:Diethylane glycol, dicarbamate 5952-26-1 1,4:Diethylene glycol, dicarbamate 1,4:Dioxane 123-91-1 1,4:Diethyleneoxide 1,4:Dioxane 123-91-1 1,4:Diethylenyl phthalate 1,2:Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 1,5:Diethylhydrazine 1,2:Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 1,6:Diethyl S-methyl Phosphorodithioic acid, O,0-diethyl S-methyl ester 318-85-1 1,2:Benzenedicarboxylic acid, diethyl seter 311-45-5 1,3:Diethyl-p-nitrophenyl phosphate Phosphorodithioic acid, O,0-diethyl ester 297-97-2 1,4:Diethyl-p-nitrophenyl phosphate Phosphorodithioic acid, O,0-diethyl ester 311-45-5 1,2:Benzenedicarboxylic acid, diethyl ester 297-97-2 1,2:Dinethyl-p-nitrophenyl phosphate Phosphorodithioic acid, O,0-diethyl O-pyrazinyl ester 297-97-2 1,3:Benzodioxole, 5-propyl-Dibydrosafrole 1,3:Benzodioxole, 5-propyl-Dibydrosafrole 1,3:Benzodioxole, 5-propyl-Phosphorodithioic acid, bis(1-methylethyl) ester 55-91-4 Dipyl-p-Dimethylaminoazobenzene Phosphorodithioic acid, O,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester 60-51-5 3,3:Dimethylbenzidine 1,1:Bijphenyl]-4,4-diamine, 3,3'-dimethoxy - 19-90-4 Polimethylbenzidine 1,1:Biphenyl]-4,4-diamine, 3,3'-dimethyl- 57-97-6 1,2:Dimethylbenzidine 1,1:Biphenyl]-4,4-diamine, 3,3'-dimethyl- 57-97-6 1,2:Dimethylbylphenethylamine 1,2:Dimethyl-1,1-dimethyl- 57-97-6 1,2:Dimethylphenol Phenol, 2,4-dimethyl- 540-73-8 1,2:Dimethylphenol Phenol, 2,4-dimethyl- 105-67-9 1,3:Dimethylphenol Phenol, 2,4-dimethyl- 105-67-9 1,3:Dimethylphenol 1,2:Benzenedicarboxylic acid, dimethyl ester 131-11-3 1,3:Dimethyl sulfate 1,4:Dimethyl-1,1-[(dimethyl ester 131-11-3 1,4:Dimethyl sulfate 1,4:Dimethyl-1,1-[(dimethyl-1)-1,1-[(dimethyl-1)-1,1-1,1-1,1-1,1-1,1-1,1-1,			60-57-1
Gaalpha, 7beta, 7aalpha)- Diethylarsine 2,2-Bioxirane 1464-53-5 Diethylarsine Arsine, diethyl- 692-42-2 Diethylene glycol, dicarbamate 5952-26-1 (5/96) 1,4-Dioxane 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 Diethylhydrazine 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N-Diethylhydrazine Hydrazine, 1,2-diethyl- 1615-80-1 O,O-Diethyl S-methyl Phosphorodithioic acid, O,O-diethyl S-methyl ester 311-45-5 Diethyl-p-nitrophenyl phosphate Phosphoroic acid, diethyl 4-nitrophenyl ester 311-45-5 Diethyl O-pyrazinyl Phosphoroic acid, diethyl 4-nitrophenyl ester 311-45-5 Diethyl O-pyrazinyl Phosphoroic acid, O,O-diethyl O-pyrazinyl ester 297-97-2 Phosphoro- thioate 1,2-Benzenedicarboxylic acid, diethyl ester 297-97-2 Dibydrosafrole 1,3-Benzedicoxole, 5-propyl- 94-58-6 Diisopropylfluorophosphate Phosphorofluoridic acid, bis(1-methylethyl) ester 55-91-4 DFP) Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester 55-91-4 DFP Dimethylaminoaxobenzene Benzenamine, N,N-dimethyl-4-(diamine, 3,3'-dimethoxy- 119-90-4 Dimethylaminoaxobenzene Benzenamine, N,N-dimethyl-4-(diamine, 3,3'-dimethyl- 57-97-6 Dimethylbenzidine 1,1'-Biphenyl-4,4'-diamine, 3,3'-dimethyl- 57-97-6 Dimethylbenzidine Hydrazine Hydrazine, 1,1-dimethyl- 57-97-6 Dimethylbenzidine 1,1-dimethyl- 57-14-7 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- 540-73-8 Dimethylphenethylamine 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl phthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl phthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl plthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl plthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl plthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3			
1,2:3,4-Diepoxybutane			
Diethylene glycol, dicarbamate (5/96) 1,4-Diethyleneoxide 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N'-Diethylhydrazine 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N'-Diethylhydrazine 1615-80-1 O,O-Diethyl S-methyl dithiophosphate Diethyl-p-nitrophenyl phosphate Diethyl-p-nitrophenyl phosphate Diethyl phthalate 1,2-Benzenedicarboxylic acid, O,O-diethyl S-methyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate Dimethyl phthalate Dimethyl phthalate Dimethyl phthalate Dimethyl sulfate Dimethyl carbamonic acid, dimethyl ester Diethyl phthalate Dimethyl sulfate	1,2:3,4-Diepoxybutane		1464-53-5
Diethylene glycol, dicarbamate (5/96) 1,4-Diethyleneoxide 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N'-Diethylhydrazine 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N'-Diethylhydrazine 1615-80-1 O,O-Diethyl S-methyl dithiophosphate Diethyl-p-nitrophenyl phosphate Diethyl-p-nitrophenyl phosphate Diethyl phthalate 1,2-Benzenedicarboxylic acid, O,O-diethyl S-methyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate Dimethyl phthalate Dimethyl phthalate Dimethyl phthalate Dimethyl sulfate Dimethyl carbamonic acid, dimethyl ester Diethyl phthalate Dimethyl sulfate		Arsine, diethyl-	692-42-2
(5/96) (3-96) (5952-26-1
Diethylhexyl phthalate 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester 117-81-7 N,N'-Diethylhydrazine 1,0-Diethyl S-methyl dithiophosphate Diethyl-p-nitrophenyl phosphate Diethyl-p-nitrophenyl phosphate Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester Diethyl phthalate Diethyl phthalate Diethyl phthalate Diethyl phthalate Diethyl phthalate Diethyl o-pyrazinyl Dinosphoro- thioate Diethylstilbesterol Diethylstilbesterol Dihydrosafrole Disopropylfluorophosphate Dimethylate Dimethoate Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester Dimethoate Dimethylbenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy- Dimethylbenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- Dimethylhydrazine Hydrazine, 1,1-dimethyl- Hydrazine, 1,1-dimethyl- Dimethylhydrazine Hydrazine, 1,2-dimethyl- Dimethylphenol Phenol, 2,4-dimethyl- Dimethyl sulfate Sulfuric acid, dimethyl ester Dimethyl sulfate Sulfuric acid, dimethyl, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 644-64-4			
Diethylhexyl phthalate N,N'-Diethylhydrazine Hydrazine, 1,2-diethyl- O,O-Diethyl S-methyl dithiophosphate Diethyl-p-nitrophenyl phosphate Diethyl-p-nitrophenyl phosphate Diethyl phthalate Diethyl o-pyrazinyl Diposphoro- thioate Diethylstilbesterol Dibydrosafrole Dibydrosafrole Diisopropylfluorophosphate Dimethylate Dimethylaminoazobenzene Diethylstilbesterol Dimethylbenzidine Dimethylbenzidine Dimethylbenzidine Dimethylbenzidine Dimethylbenzidine Dimethylhydrazine Dimethylhydrazine Dimethylhydrazine Dimethylphenol Dimethylphenol Dimethylphenol Dimethyl sulfate Dimethyl sulfate Dimethyl sulfate Sulfuric acid, dimethyl-1-[(dimethyl-ster)] Dimethyl sulfate Dimethyl carbamic acid, dimethyl-1, [-(dimethyl-ster)l-5-methyl-1H-pyrazol-	1,4-Diethyleneoxide	1,4-Dioxane	123-91-1
N,N'-Diethylhydrazine Hydrazine, 1,2-diethyl- 2,0-Diethyl S-methyl Phosphorodithioic acid, O,O-diethyl S-methyl ester 3288-58-2 3288-58-2 311-45-5 3288-58-2 311-45-5 311			117-81-7
Phosphorodithioic acid, O,O-diethyl S-methyl ester 3288-58-2			
dithiophosphate Diethyl-p-nitrophenyl phosphate Diethyl-p-nitrophenyl phosphate Diethyl phthalate O,O-Diethyl O-pyrazinyl phosphoro- thioate Diethyl stilbesterol Diethyl stilbesterol Diethyl stilbesterol Diethyl stilbesterol Diethyl stilbesterol Diethyl stilbesterol Diethyl phthalate Diethyl phthalate Diethyl stilbesterol Diethyl stilbesterol Dibydrosafrole Disopropylfluorophosphate Disopropylfluorophosphate Disopropylfluorophosphate Dimethylaminoazobenzene Dimethylaminoazobenzene Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester Dimethylaminoazobenzene P-Dimethylaminoazobenzene Dimethylbenz[a]anthracene Benzenamine, N,N-dimethyl-4-(phenylazo)- Benz[a]anthracene, 7,12-dimethyl- Dimethylbenzidine Dimethylbenzidine Dimethylbenzidine Dimethylbenzidine Dimethylbarzine Hydrazine, 1,1-dimethyl- 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- 1,2-Dimethylhydrazine Benzeneethanamine, alpha,alpha-dimethyl- Dimethylphenethylamine Dimethylphenethylamine Dimethyl phthalate Dimethyl phthalate Sulfuric acid, dimethyl- Dimethyl sulfate Sulfuric acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate Sulfuric acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate Sulfuric acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate Dimethyl sulfate Sulfuric acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate Dimethyl sulfate Carbamic acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate Dimethyl sulfate Sulfuric acid, dimethyl- Carbamic acid, dimethyl- Dimethyl sulfate			
Diethyl-p-nitrophenyl phosphate Diethyl phthalate Diethyl Opyrazinyl phosphoro-thioate Diethyl Stilbesterol Diethylstilbesterol Diethylstilbesterol Diisopropylfluorophosphate (DFP) Dimethoate Dimethylstilbesterol Dimethylstiloserol Dimethoate Dimethylstiloserol Diisopropylfluorophosphate (DFP) Dimethoate Dimethoate Dimethoate Dimethoate Dimethoate Dimethylstilbesterol Diphydrosafrole Diisopropylfluorophosphate (DFP) Dimethoate Dimethoate Dimethoate Dimethoate Dimethoate Dimethoate Dimethylaminoazobenzen Benzenamine, N,N-dimethyl-4(-(phenylazo)- T,12-Dimethylbenzidine Dimethylbenzidine Dimethylcarbamoyl chloride Dimethylcarbamoyl chloride Carbamic chloride, dimethyl- 1,1-Dimethylhydrazine Hydrazine, 1,1-dimethyl- 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- Dimethylphenethylamine Dimethylphenethylamine Dimethylphenol Dimethylphenol Dimethyl phthalate Dimethyl sulfate Dimethyl		Thosphorousinois acto, e, e dieury i e meury i ester	5200 00 2
Diethyl phthalate 1,2-Benzenedicarboxylic acid, diethyl ester 297-97-2 Phosphorothioate Diethyl O-pyrazinyl phosphorothioate Diethylstilbesterol Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)- Dihydrosafrole 1,3-Benzodioxole, 5-propyl- Diisopropylfluorophosphate (DFP) Dimethoate Phosphorofluoridic acid, bis(1-methylethyl) ester (DFP) Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (DFP) Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (DFP) Dimethylaminoazobenzene Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (DFP) Dimethylbenzialine Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (DFP) Dimethylbenzialine Phosphorodithioic acid, dimethyl- (phenylazo)- (DFP) Dimethylphenethylamine Phosphorodithioic acid, dimethyl- (phenylazo)- Dimethylphenethylamine Phosphorodithioic acid, dimethyl- (phenylazo)- Dimethyl phthalate Phosphorodithioic acid, dimethyl- (phenylazo)- Dimethyl phthalate Phosphorodithioic acid, dimethyl- (phenylazo)- Dimethyl sulfate Phosphorodithioic acid, dimethyl- (pheny		Phosphoric acid diethyl 4-nitrophenyl ester	311-45-5
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester 297-97-2	<u> </u>		
phosphoro- thioate Diethylstilbesterol Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)- 56-53-1 Dihydrosafrole 1,3-Benzodioxole, 5-propyl- 94-58-6 Diisopropylfluorophosphate (DFP) Dimethoate Phosphorofiluoridic acid, bis(1-methylethyl) ester 55-91-4 Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester 60-51-5 3,3'-Dimethoxybenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy 119-90-4 p-Dimethylaminoazobenzene Benzenamine, N,N-dimethyl-4-(phenylazo) 60-11-7 7,12-Dimethylbenz[a]anthracene Benzenamine, N,N-dimethyl-4-(phenylazo) 57-97-6 3,3'-Dimethylbenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- 119-93-7 Dimethylcarbamoyl chloride Carbamic chloride, dimethyl- 79-44-7 1,1-Dimethylhydrazine Hydrazine, 1,1-dimethyl- 57-14-7 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- 57-14-7 1,2-Dimethylphenethylamine Benzeneethanamine, alpha,alpha-dimethyl- 122-09-8 Dimethyl phthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl sulfate Sulfuric acid, dimethyl- 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 644-64-4			
Diethylstilbesterol Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)- 56-53-1 Dihydrosafrole 1,3-Benzodioxole, 5-propyl- 94-58-6 Diisopropylfluorophosphate (DFP) Phosphorofluoridic acid, bis(1-methylethyl) ester 55-91-4 Dimethoate Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester 60-51-5 3,3'-Dimethoxybenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy- 119-90-4 p-Dimethylaminoazobenzene Benzenamine, N,N-dimethyl-4-(phenylazo)- 60-11-7 7,12-Dimethylbenz[a]anthracene Benzenamine, 7,12-dimethyl- 57-97-6 3,3'-Dimethylbenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- 19-93-7 Dimethylamoyl chloride Carbamic chloride, dimethyl- 79-44-7 1,1-Dimethylhydrazine Hydrazine, 1,1-dimethyl- 57-14-7 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- 57-14-7 Benzeneethanamine, alpha,alpha-dimethyl- 122-09-8 Dimethylphenothylamine 2,4-Dimethylphenol Phenol, 2,4-dimethyl- 105-67-9 Dimethyl sulfate Sulfuric acid, dimethyl ester 77-78-1 Dimetilan (5/96) Carbamic acid, dimethyl-, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 644-64-4		The spinor of the state of the	271 71-2
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Diisopropylfluorophosphate (DFP) Dimethoate Phosphorofiluoridic acid, D.Odimethyl S-[2-(methylamino)-2-oxoethyl] ester 60-51-5 3,3'-Dimethoxybenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy- 119-90-4 p-Dimethylaminoazobenzene Benzenamine, N,N-dimethyl-4-(phenylazo)- 60-11-7 7,12-Dimethylbenz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- 3,3'-Dimethylbenzidine [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- Dimethylcarbamoyl chloride [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- 1,1-Dimethylhydrazine Hydrazine, 1,1-dimethyl- 1,2-Dimethylhydrazine Hydrazine, 1,1-dimethyl- 1,2-Dimethylhydrazine Hydrazine, 1,2-dimethyl- 1,2-Dimethylphenethylamine 2,4-Dimethylphenol Phenol, 2,4-dimethyl- Dimethyl phthalate 1,2-Benzenedicarboxylic acid, dimethyl ester 131-11-3 Dimethyl sulfate Sulfuric acid, dimethyl-, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 60-51-5 60-51-7 60-51-			
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Dimethyl sulfate Sulfuric acid, dimethyl ester 77-78-1 Dimetilan (5/96) Carbamic acid, dimethyl-, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 644-64-4			
Dimetilan (5/96) Carbamic acid, dimethyl-, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol- 644-64-4			
	Dimetilan (5/96)	Carbamic acid, dimethyl-, 1-[(dimethylamino) carbonyl]-5-methyl-1H-pyrazol-3-yl ester	644-64-4

II.	s Constituents	
Common name	Chemical abstracts name (9/98)	CAS#
Dinitrobenzene, N.O.S. ¹	Benzene, dinitro-	25154-54-5
4,6-Dinitro-o-cresol	Phenol, 2-methyl-4,6-dinitro-	534-52-1
4,6-Dinitro-o-cresol salts		
2,4-Dinitrophenol	Phenol, 2,4-dinitro-	51-28-5
2,4-Dinitrotoluene	Benzene, 1-methyl-2,4-dinitro-	121-14-2
2,6-Dinitrotoluene	Benzene, 2-methyl-1,3-dinitro-	606-20-2
Dinoseb	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7
Di-n-octyl phthalate	1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0
Diphenylamine	Benzenamine, N-phenyl-	122-39-4
1,2-Diphenylhydrazine	Hydrazine, 1,2-diphenyl-	122-66-7
Di-n-propylnitrosamine	1-Propanamine, N-nitroso-N-propyl-	621-64-7
Disulfiram (5/96)	Thioperoxydicarbonic diamide, tetraethyl	97-77-8
Disulfoton	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester	298-04-4
Dithiobiuret	Thioimidodicarbonic diamide [(H ₂ N)C(S)] ₂ NH	541-53-7
Endosulfan	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-	115-29-7
	hexahydro-, 3-oxide	
Endothall	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145-73-3
Endrin	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)-	72-20-8
Endrin metabolites		
Epichlorohydrin	Oxirane, (chloromethyl)-	106-89-8
Epinephrine State of the Control of	1,2-Benzenediol, 4-[1-hydroxy -2-(methylamino)ethyl]-, (R)-	51-43-4
EPTC	Carbamothioic acid, dipropyl-, S-ethyl ester	759-94-4
Ethyl carbamate (urethane)	Carbamic acid, ethyl ester	51-79-6
Ethyl cyanide	Propanenitrile	107-12-0
Ethylenebisdithiocarbamic acid	Carbamodithioic acid, 1,2-ethanediylbis-	111-54-6
Ethylenebisdithiocarbamic acid,	Carbaniodiunoic acid, 1,2-emanedryiois-	111-34-0
salts and esters		
Ethylene dibromide	Ethane, 1,2-dibromo-	106-93-4
Ethylene dichloride	Ethane, 1,2-dichloro-	107-06-2
Ethylene glycol monoethyl ether	Ethanol, 2-ethoxy-	110-80-5
Ethyleneimine	Aziridine	151-56-4
Ethylene oxide	Oxirane	75-21-8
Ethylenethiourea		
	2-Imidazolidinethione	96-45-7
Ethylidene dichloride	Ethane, 1,1-dichloro-	75-34-3
Ethyl methacrylate	2-Propenoic acid, 2-methyl-, ethyl ester	97-63-2
Ethyl methanesulfonate	Methanesulfonic acid, ethyl ester	62-50-0
Ethyl Ziram (5/96)	Zinc, bis(diethylcarbamodithioato-S,S')-	14324-55-1
Famphur	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	52-85-7
Ferbam (5/96)	Iron, tris(dimethylcarbamodithioat-S,S')-,	14484-64-1
Fluoranthene	Same	206-44-0
		7782-41-4
Fluorine	Same	
Fluoroacetamide	Acetamide, 2-fluoro-	640-19-7
Fluoroacetic acid, sodium salt	Acetic acid, fluoro-, sodium salt	62-74-8
Formaldehyde	Same	50-00-0
Formetanate hydrochloride	Methanimidamide, N,N-dimethyl-N'-[3-[[(methylamino) carbonyl]oxy]phenyl]-, monohydrochloride (5/96)	23422-53-9
Formic acid	Same	64-18-6
Formparanate (5/96)	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[(methylamino)	17702-57-7
	carbonyl]oxy]phenyl]	
Glycidylaldehyde	Oxiranecarboxyaldehyde	765-34-4
Halomethanes, N.O.S. ¹		
Heptachlor	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	76-44-8
Heptachlor epoxide	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro- 1a,1b,5,5a,6,6a-hexa- hydro-, (1aalpha,1bbeta,2alpha,5alpha, 5abeta,6beta,6aalpha)-	1024-57-3
Heptachlor epoxide (alpha, beta, and gamma isomers)		
Heptachlorodibenzofurans	(5/96)	
Heptachlorodibenzo-p-dioxins	(5/96)	
Hexachlorobenzene	Benzene, hexachloro-	118-74-1
Hexachlorobutadiene	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	87-68-3

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Common name	Chemical abstracts name (9/98)	CAS#
Hexachlorodibenzo-p-dioxins		
Hexachlorodibenzofurans	The state of the s	(T. T.) 1
Hexachloroethane	Ethane, hexachloro-	67-72-1
Hexachlorophene	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	70-30-4
Hexachloropropene	1-Propene, 1,1,2,3,3,3-hexachloro-	1888-71-7
Hexaethyl tetraphosphate	Tetraphosphoric acid, hexaethyl ester	757-58-4
Hydrazine	Same	302-01-2
Hydrogen cyanide	Hydrocyanic acid	74-90-8 7664-39-3
Hydrogen fluoride	Hydrofluoric acid	
Hydrogen sulfide	Hydrogen sulfide H ₂ S	7783-06-4
Indeno[1,2,3-cd]pyrene	Same	193-39-5
3-Iodo-2-propynyl n-	Carbamic acid, butyl-, 3-iodo-2-propynyl ester	55406-53-6
butylcarbamate (5/96)	1 December 1 2 mosthed	70 02 1
Isobutyl alcohol Isodrin	1-Propanol, 2-methyl-	78-83-1 465-73-6
Isoarin	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-	465-73-6
I1 (5/06)	hexahydro-,(1alpha,4alpha,4abeta,5beta,8beta,-8abeta) -	110 20 0
Isolan (5/96) Isosafrole	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester 1,3-Benzodioxole, 5-(1-propenyl)-	119-38-0 120-58-1
Kepone	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-	143-50-0
керопе	1,5,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,5,3a,4,5,5,3a,5o,o-decachlorooctahydro-	143-30-0
Lasiocarpine	2-Butenoic acid, 2-methyl-,7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-	303-34-1
Lasiocarpine	oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-	303-34-1
	0x00titoxy]intentyl]-2,3,3,7a-tetranydro-1ri-pyrronzin-1-yf ester, [13- [1alpha(Z),7(2S*,3R*),7aalpha]]-	
Lead	Same	7439-92-1
Lead compounds, N.O.S. ¹	Same	7437-72-1
Lead acetate	Acetic acid, lead(2+) salt	301-04-2
Lead phosphate	Phosphoric acid, lead(2+) salt (2:3)	7446-27-7
Lead subacetate	Lead, bis(acetato-O)tetrahydroxytri-	1335-32-6
Lindane	Cyclohexane, 1,2,3,4,5,6-hexachloro-,	58-89-9
Lindane	(1alpha,2alpha,3beta,4alpha,5alpha,6beta)-	30-07-7
Maleic anhydride	2,5-Furandione	108-31-6
Maleic hydrazide	3,6-Pyridazinedione, 1,2-dihydro-	123-33-1
Malononitrile	Propanedinitrile	109-77-3
Manganese	Manganese, bis(dimethylcarbamodithioato-S,S')-,	15339-36-3
dimethyldithiocarbamate (5/96)	Manganese, orseanneary tear oannour moato-5,5)-,	13337-30-3
Melphalan	L-Phenylalanine, 4-[bis(2-chloroethyl)aminol]-	148-82-3
Mercury	Same	7439-97-6
Mercury compounds, N.O.S. 1	Same	7437-71-0
Mercury fulminate	Fulminic acid, mercury(2+) salt	628-86-4
Metam Sodium (5/96)	Carbamodithioic acid, methyl-, monosodium salt	137-42-8
Methacrylonitrile	2-Propenenitrile, 2-methyl-	126-98-7
Methapyrilene	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	91-80-5
Methiocarb (5/96)	Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	2032-65-7
Methomyl	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester	16752-77-5
Methoxychlor	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-	72-43-5
Methyl bromide	Methane, bromo-	74-83-9
Methyl chloride	Methane, chloro-	74-87-3
Methyl chlorocarbonate	Carbonochloridic acid, methyl ester	79-22-1
Methyl chloroform	Ethane, 1,1,1-trichloro-	71-55-6
3-Methylcholanthrene	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	56-49-5
4,4'-Methylenebis (2-	Benzenamine, 4,4'-methylenebis[2-chloro-	101-14-4
chloroaniline)		
M ethylene bromide	Methane, dibromo-	74-95-3
Methylene chloride	Methane, dichloro-	75-09-2
Methyl ethyl ketone (MEK)	2-Butanone	78-93-3
Methyl ethyl ketone peroxide	2-Butanone, peroxide	1338-23-4
Methyl hydrazine	Hydrazine, methyl-	60-34-4
Methyl iodide	Methane, iodo-	74-88-4
Methyl isocyanate	Methane, isocyanato-	624-83-9
2-Methyllactonitrile	Propanenitrile, 2-hydroxy -2-methyl-	75-86-5
Methyl methacrylate	2-Propenoic acid, 2-methyl-, methyl ester	80-62-6
Methyl methanesulfonate	Methanesulfonic acid, methyl ester	66-27-3
Methyl parathion	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	298-00-0
Methylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	56-04-2
	Carbamic acid, methyl-, 3-methylphenyl ester	1129-41-5

Common name	Chemical abstracts name (9/98)	CAS#
Mexacarbate (5/96)	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	315-18-4
Mitomycin C	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-	50-07-7
Willomyem	[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5- methyl-,[1aS-(1aalpha,8beta,8aalpha,8balpha)]	30-07-7
MNNG	Guanidine, N-methyl-N'-nitro-N-nitroso-	70-25-7
Molinate (5/96)	1H-Azepine-1-carbothioic acid, hexahydro-, S-ethyl ester	2212-67-1
Mustard gas	Ethane, 1,1'-thiobis[2-chloro-	505-60-2
Naphthalene	Same	91-20-3
1,4-Naphthoquinone	1,4-Naphthalenedione	130-15-4
alpha-Naphthylamine	1-Naphthalenamine	134-32-7
beta-Naphthylamine	2-Naphthalenamine	91-59-8
alpha-Naphthylthiourea	Thiourea, 1-naphthalenyl-	86-88-4
Nickel	Same	7440-02-0
Nickel compounds, N.O.S. ¹		
Nickel carbonyl	Nickel carbonyl Ni(CO) ₄ , (T-4)-	13463-39-3
Nickel cyanide	Nickel cyanide Ni(CN) ₂	557-19-7
Nicotine	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-	54-11-5
Nicotine salts		
Nitric oxide	Nitrogen oxide NO	10102-43-9
p-Nitroaniline	Benzenamine, 4-nitro-	100-01-6
Nitrobenzene	Benzene, nitro-	98-95-3
Nitrogen dioxide	Nitrogen oxide NO ₂	10102-44-0
Nitrogen mustard	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-	51-75-2
Nitrogen mustard, hydro-		
chloride salt		
Nitrogen mustard N-oxide	Ethanamine, 2-chloro-N-(2-chloroethyl)-N-methyl-, N-oxide	126-85-2
Nitrogen mustard, N-oxide,		
hydrochloride salt		
Nitroglycerin	1,2,3-Propanetriol, trinitrate	55-63-0
p-Nitrophenol	Phenol, 4-nitro-	100-02-7
2-Nitropropane	Propane, 2-nitro-	79-46-9
Nitrosamines, N.O.S. ¹		35576-91-1D
N-Nitrosodi-n-butylamine	1-Butanamine, N-butyl-N-nitroso-	924-16-3
N-Nitrosodiethanolamine	Ethanol, 2,2'-(nitrosoimino)bis-	1116-54-7
N-Nitrosodiethylamine	Ethanamine, N-ethyl-N-nitroso-	55-18-5
N-Nitrosodimethylamine	Methanamine, N-methyl-N-nitroso-	62-75-9
N-Nitroso-N-ethylurea	Urea, N-ethyl-N-nitroso-	759-73-9
N-Nitrosomethylethylamine	Ethanamine, N-methyl-N-nitroso-	10595-95-6
N-Nitroso-N-methylurea	Urea, N-methyl-N-nitroso-	684-93-5
N-Nitroso-N-methylurethane	Carbamic acid, methylnitroso-, ethyl ester	615-53-2
N-Nitrosomethylvinylamine	Vinylamine, N-methyl-N-nitroso-	4549-40-0 59-89-2
N-Nitrosomorpholine	Morpholine, 4-nitroso-	
N-Nitrosonornicotine	Pyridine, 3-(1-nitroso-2-pyrrolidinyl)-, (S)-	16543-55-8
N-Nitrosopiperidine	Piperidine, 1-nitroso-	100-75-4 930-55-2
N-Nitrosopyrrolidine N-Nitrososarcosine	Glycine, N-methyl-N-nitroso-	13256-22-9
5-Nitro-o-toluidine	Benzenamine, 2-methyl-5-nitro-	99-55-8
Octachlorodibenzo-p-dioxin	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (7/02)	77-33-8
(OCDD)	1,2,3,7,0,1,0,7-Octacinoroutocnzo-p-dioxin (1/02)	
Octachlorodibenzofuran(OCDF)	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (7/02)	1
Octamethylpyrophos-phoramide	Diphosphoramide, octamethyl-	152-16-9
Osmium tetroxide	Osmium oxide OsO ₄ , (T-4)-	20816-12-0
Oxamyl (5/96)	Ethanimidothioc acid, 2-(dimethylamino)-N-[[(methylamino)carbonyl]oxy]-2-	23135-22-0
Orally1 (3/70)	oxo-, methyl ester	23133-22-U
Paraldehyde	1,3,5-Trioxane, 2,4,6-trimethyl-	123-63-7
Parathion	Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester	56-38-2
Pebulate	Carbamothioic acid, butylethyl-, S-propyl ester	1114-71-2
Pentachlorobenzene	Benzene, pentachloro-	608-93-5
Pentachlorodibenzo-p-dioxins		
Pentachlorodibenzofurans		
Pentachloroethane	Ethane, pentachloro-	76-01-7
Pentachloronitrobenzene	Benzene, pentachloronitro-	82-68-8
(PCNB)		
Pentachlorophenol	Phenol, pentachloro-	87-86-5
Phenacetin	Acetamide, N-(4-ethoxyphenyl)-	62-44-2
		32-4

Appendix VIII Hazardou	s Constituents	
Common name	Chemical abstracts name (9/98)	CAS#
Phenol	Same	108-95-2
Phenylenediamine	Benzenediamine	25265-76-3
Phenylmercury acetate	Mercury, (acetato-O)phenyl-	62-38-4
Phenylthiourea	Thiourea, phenyl-	103-85-5
Phosgene	Carbonic dichloride	75-44-5
Phosphine	Same	7803-51-2
Phorate	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	298-02-2
Phthalic acid esters, N.O.S. ¹		
Phthalic anhydride	1,3-Isobenzofurandione	85-44-9
Physostigmine (5/96)	Pyrrolo[2,3-b]indol-5-01, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-	57-47-6
Physostigmine salicylate (5/96)	Benzoic acid, 2-hydroxy -, compd. with (3aS-cis) -1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo [2,3-b]indol-5-yl methylcarbamate ester (1:1).	57-64-7
2-Picoline	Pyridine, 2-methyl-	109-06-8
Polychlorinated biphenyls, N.O.S. ¹		
Potassium cyanide	Potassium cyanide K(CN)	151-50-8
Potassium dimethyldithiocarbamate (5/96)	Carbamodithioc acid, dimethyl, potassium salt	128-03-0
Potassium n-hydroxymethyl-n- methyl-dithiocarbamate	Carbamodithioic acid, (hydroxymethyl)methyl-, monopotassium salt	51026-28-9
Potassium n- methyldithiocarbamate (5/96)	Carbamodithioc acid, methyl-monopotassium salt	137-41-7
Potassium pentachlorophenate	Pentachlorophenol, potassium salt	7778736
Potassium silver cyanide	Argentate(1-), bis(cyano-C)-, potassium	506-61-6
Promecarb (5/96)	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate	2631-37-0
Pronamide	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	23950-58-5
1,3-Propane sultone	1,2-Oxathiolane, 2,2-dioxide	1120-71-4
n-Propylamine	1-Propanamine	107-10-8
Propargyl alcohol	2-Propyn-1-ol	107-19-7
Propham	Carbamic acid, phenyl-, 1-methylethyl ester	122-42-9
Propoxur	Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1
Propylene dichloride	Propane, 1,2-dichloro-	78-87-5
1,2-Propylenimine	Aziridine, 2-methyl-	75-55-8
Propylthiouracil	4(1H)-Pyrimidinone, 2,3-dihydro-6-propyl-2-thioxo-	51-52-5
Prosulfocarb	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	52888-80-9
Pyridine	Same	110-86-1
Reserpine	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-smethyl ester, (3beta,16beta,17alpha,18beta,20alpha)-	50-55-5
Resorcinol	1,3-Benzenediol	108-46-3
Saccharin	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide	81-07-2
Saccharin salts		
Safrole	1,3-Benzodioxole, 5-(2-propenyl)-	94-59-7
Selenium	Same	7782-49-2
Selenium compounds, N.O.S. ¹		1
Selenium dioxide	Selenious acid	7783-00-8
Selenium sulfide	Selenium sulfide SeS ₂	7488-56-4
Selenium, tetrakis (dimethyl-	Carbamodithioic acid, dimethyl-, tetraanhydrosulfide with orthothioselenious	144-34-3
dithiocarbamate.	acid.	(20.10.1
Selenourea	Same	630-10-4
Silver compounds NOS 1	Same	7440-22-4
Silver compounds, N.O.S. ¹	G'I 'I A (CNI)	500 010
Silver cyanide	Silver cyanide Ag(CN)	506-64-9
Silvex (2,4,5-TP)	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	93-72-1
Sodium cyanide	Sodium cyanide Na(CN)	143-33-9
Sodium dibutyldithiocarbamate	Carbamodithioic acid, dibutyl, sodium salt (5/96)	136-30-1
Sodium diethyldithiocarbamate	Carbamodithioic acid, diethyl-, sodium salt (5/96)	148-18-5
Sodium	Carbamodithioic acid, dimethyl-, sodium salt (5/96)	128-04-1
dimethyldithiocarbamate	Deutschlagenhauel as Europelk	121522
Sodium pentachlorophenate	Pentachlorophenol, sodium salt	131522
Streptozotocin	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)carbonyl]amino]-	18883-66-4
Strychnine	Strychnidin-10-one	57-24-9
Strychnine salts		05.06.5
Sulfallate (5/96)	Carbamodithioic acid, diethyl-, 2-chloro-2-propenyl ester	95-06-7
TCDD	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	1746-01-6

1.2.4.5.* tetrachlorodibenzop-dioxins	Appendix VIII Hazardous	s Constituents	
Terrabuyphituran disulfide	Common name	Chemical abstracts name (9/98)	CAS#
12,4.5-Ferachlurobenzene Benzene, 1,24,5-terachluro- 12,5-12	Tetrabutylthiuram disulfide	Thioperoxydicarbonic diamide, tetrabutyl (5/96)	
Tetrachlorochemack, NO.S.	1,2,4,5-Tetrachlorobenzene		95-94-3
Tetrachbrorechane Ethane 1.1.2.2 tetrachloro 50.02-06	Tetrachlorodibenzo-p-dioxins		
1.1.1.2 Tetrachlorochlune	Tetrachlorodibenzofurans		
1.1.2.2 **Hermethiorochtmidethiorochtmidethi	Tetrachloroethane, N.O.S. ¹	Ethane, tetrachloro-, N.O.S.	25322-20-7
Tetrachloroethylene	1,1,1,2-Tetrachloroethane	Ethane, 1,1,1,2-tetrachloro-	630-20-6
2,3,4,6-terachlorophenol 2,3,4,6-terachloro- 2,3,3,6-terachlorophenol 5839.27	1,1,2,2-Tetrachloroethane	Ethane, 1,1,2,2-tetrachloro-	
2,3,4,6-terachlorophenol, some 53535276	Tetrachloroethylene		
Datasetim salt		Phenol, 2,3,4,6-tetrachloro-	58-90-2
Sodium salt	potassium salt	same	53535276
Tetraethyl lead	sodium salt	same	25567559
Tetramethylimram monosulfide Bisdimentylthiocarbamoyl) sulfide 97.74-5 Tetramethylthiniarm monosulfide Bisdimentylthiocarbamoyl) sulfide 97.74-5 Tetramethylthiniarm monosulfide Bisdimentylthiocarbamoyl) sulfide 97.74-5 Thallium Compounds, N.O.S. Thallium Control Thallium Co	Tetraethyldithiopyrophos-phate	Thiodiphosphoric acid, tetraethyl ester	3689-24-5
Tetranterbythfutram monosulfide Sisdimethylthiocarbamoyl) sulfide Signite Sign	Tetraethyl lead		
Tetranitromethane	Tetraethyl pyrophosphate		107-49-3
Thallium	Tetramethylthiuram monosulfide		
Thallium compounds, N.O.S.¹ 1314-32-5 Thallium(1) acetate Acetic acid, thallium(1+) salt 563-68-8 Thallium(1) carbonate Carbonic acid, dithallium(1+) salt 6533-73-9 Thallium(1) carbonate Carbonic acid, dithallium(1+) salt 10102-45-1 Thallium (1) mitrate Nitric acid, dithallium(1+) salt 10102-45-1 Thallium (2) sulfate Selenious acid, dithallium(1+) salt 12039-52-1 Thallium (3) sulfate Sulfuric acid, dithallium(1+) salt 7446-18-6 Thiodecard (5/96) Ethanimidoffhoic acid, N.N¹-(thiobis [(methylimino) carbonyloxy]] bis-, dimethyl ester. 5669-26-0 Thiodanox 2-Butanone, 3.3-dimethyl-1-(methylthio)-, 0-[(methylamino)carbonyl] oxime 39196-18-4 Thiophanate-methyl Carbanic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 2356-40-58 Thiophanate-methyl Carbanic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 2356-60-8 Thiophanate-methyl Carbanic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 2356-60-8 Thiophanate-methyl Carbanic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 2356-40-8 Thiophanate-methyl Carbanic acid, [1,2-phye	Tetranitromethane		
Thallium(f) acetate	Thallium	Same	7440-28-0
Thallium(I) acetate			
Thallium(f) carbonate	Thallic oxide		
Thallium(I) nitrate Thallium chloride TICl 7791-12-0 1791-12-0 Thallium(I) nitrate Nitric acid, thallium(I+) salt 12039-52-0 Thallium selenite Selenious acid, dithallium(I+) salt 12039-52-0 Thallium selenite Selenious acid, dithallium(I+) salt 12039-52-0 Thioacetamide Ethanethioamide 2-85t. 59669-26-0 dimethyl ester. 218tanone, 3,3-dimethyl-1-(methyltinio)-, 0-[(methylamino)carbonyl] oxime 39196-18-4 Thiofanox 2-8tatanone, 3,3-dimethyl-1-(methylthio)-, 0-[(methylamino)carbonyl] oxime 39196-18-4 374-93-1 374	Thallium(I) acetate		
Thallium(I) nitrate	Thallium(I) carbonate		
Thalliums elenite			
Thallium(f) sulfate Ethanethioamide Ethanethioamide Ethanethioamide Ethanethioamide Ethanethioamide Ethanethioamide Ethanethioamide 52-55-5 Sp669-26-0 Ethanimidothiote acid, N.N-[thiobis [(methylimino) carbonyloxy]] bis-, dimethyl (ster.) Sp669-26-0 Ethanimidothiote acid, N.N-[thiobis [(methylimino) carbonyloxy]] bis-, dimethyl (ster.) Sp669-26-0 Sp69-26-0	Thallium(I) nitrate		10102-45-1
Dioacetamide Ethanethioamide Ethanethioamide S2-55-5 Ethanimidothioic acid, N.N'-[thiobis [(methylimino) carbonyloxy]] bis-, dimethyl ester. Sp669-26-0	Thallium selenite		
Ethanimidothioic acid, N,N'-[thiobis [(methylimino) carbonyloxy]] bis-, dimethyl ester. 59669-26-0			
dimethyl ester. 2-Butanone, 3,3-dimethyl-1-(methylthio)-, 0-[(methylamino)carbonyl] oxime 39196-18-4			
Thiomethanol Methanethiol Carbamic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 23564-05-8 Thiophenol Benzenethiol 108-98-5 Thiosemicarbazide Hydrazinecarbothioamide 79-19-6 Thiourea Same 62-56-6 Thiorem Thioperoxydicarbonic diamide [(H ₂ N)C(S)] ₂ S ₂ , tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] 26419-73-8 26419-	, ,	dimethyl ester.	
Thiophanate-methyl Carbamic acid, [1,2-phyenylenebis (iminocarbonothioyl)] bis-, dimethyl ester 23564-05-8 Thiophenol Benzenethiol 108-98-5 Thiosemicarbazide Hydrazinecarbothioamide 79-19-6 Thiourea Same 62-56-6 Thiram Thioperoxydicarbonic diamide [(H₂N)C(S)]₂S₂, tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. 26419-73-8 Toluene Benzene, methyl- 108-88-3 Tolueneliamine Benzenediamine, a-methyl- 25376-45-8 Toluene-2,4-diamine 1,3-Benzenediamine, a-methyl- 95-80-7 Toluene-2,6-diamine 1,3-Benzenediamine, 2-methyl- 823-40-5 Toluene-3,4-diamine 1,2-Benzenediamine, 4-methyl- 496-72-0 Toluene discovanate Benzenen, 1,3-diisocyanatomethyl- 26471-62-5 o-Toluidine Benzenamine, 2-methyl- 95-53-4 o-Toluidine bydrochloride Benzenamine, 2-methyl-, hydrochloride 636-21-5 P-Toluidine Benzenamine, 4-methyl- 106-49-0 Toxaphene Same 8001-35-2			
Thiophenol Benzenethiol 108-98-5 Thiosemicarbazide Hydrazinecarbothioamide 79-19-6 Thiourea Same 62-56-6 Thiram Thioperoxydicarbonic diamide [(H₂N)C(S)]₂ S₂, tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. 26419-73-8 Toluene Benzene, methyl- 108-88-3 Toluenediamine Benzenediamine, ar-methyl- 25376-45-8 Toluene-2,4-diamine 1,3-Benzenediamine, 4-methyl- 95-80-7 Toluene-3,4-diamine 1,3-Benzenediamine, 4-methyl- 496-72-0 Toluene diisocyanate Benzene, 1,3-diisocyanatomethyl- 26471-62-5 0-Toluidine Benzenamine, 2-methyl- 95-53-4 0-Toluidine Benzenamine, 2-methyl- 95-3-4 10-49-0 95-53-4 95-53-4			
Thiosemicarbazide Hydrazinecarbothioamide 79-19-6 Thiourea Same 62-56-6 Thior Thioperoxydicarbonic diamide [(H₂N)C(S)]₂S₂, tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. 26419-73-8 Toluene Benzene, methyl- 25376-45-8 Toluenediamine Benzenediamine, ar-methyl- 25376-45-8 Toluene-2,4-diamine 1,3-Benzenediamine, 4-methyl- 95-80-7 Toluene-2,4-diamine 1,3-Benzenediamine, 2-methyl- 823-40-5 Toluene-3,4-diamine 1,2-Benzenediamine, 2-methyl- 26471-62-5 0-Toluidine Benzene, 1,3-diisocyanatomethyl- 26471-62-5 0-Toluidine Benzene, 1,3-diisocyanatomethyl- 95-53-4 0-Toluidine Benzenamine, 2-methyl-, hydrochloride 636-21-5 p-Toluidine Benzenamine, 2-methyl-, hydrochloride 636-21-5 p-Toluidine Benzenamine, 3-methyl-, hydrochloride 636-21-5 p-Toluidine Benzenamine, 4-methyl- 106-49-0 Toxaphene Same 8001-35-2 Tributyltin <t< td=""><td></td><td></td><td></td></t<>			
Thiourea Same 62-56-6 Thiram Thioperoxydicarbonic diamide [(H₂N)C(S)]₂S₂, tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. 26419-73-8 Toluene Benzene, methyl- 108-88-3 Toluene-2,4-diamine 1,3-Benzenediamine, 4-methyl- 25376-45-8 Toluene-2,4-diamine 1,3-Benzenediamine, 2-methyl- 823-40-5 Toluene-3,4-diamine 1,2-Benzenediamine, 2-methyl- 496-72-0 Toluene diisocyanate Benzene, 1,3-diisocyanatomethyl- 26471-62-5 o-Toluidine diisocyanate Benzenamine, 2-methyl- 95-53-4 o-Toluidine hydrochloride Benzenamine, 2-methyl- 95-53-4 o-Toluidine hydrochloride Benzenamine, 2-methyl- 95-53-4 o-Toluidine Benzenamine, 2-methyl- 95-53-4 o-Toluidine Benzenamine, 2-methyl- 96-21-5 p-Toluidine Benzenamine, 2-methyl- 90-3-5 Trialtate (5/96) Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester 2303-17-5 Tributyltin (5/96) Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-t			
Thiram Thioperoxydicarbonic diamide [(H₂N)C(S)]₂S₂, tetramethyl- 137-26-8 Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] 26419-73-8 oxime. 108-88-3 Toluene Benzene, methyl- 25376-45-8 Toluene-2,4-diamine 1,3-Benzenediamine, 4-methyl- 95-80-7 Toluene-2,4-diamine 1,3-Benzenediamine, 2-methyl- 823-40-5 Toluene-3,4-diamine 1,2-Benzenediamine, 2-methyl- 496-72-0 Toluene diisocyanate Benzene, 1,3-diisocyanatomethyl- 26471-62-5 o-Toluidine Benzenamine, 2-methyl- 95-53-4 o-Toluidine bydrochloride Benzenamine, 2-methyl-, hydrochloride 636-21-5 p-Toluidine Benzenamine, 4-methyl- 106-49-0 Toxaphene Same 8001-35-2 Triallate (5/96) Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester 2,303-17-5 2,4,6-Tribromophenol. (11/99) Tribromophenol.,2,4,6- 118-79-6 Tributyltin Tributylstannane (6/02) 56-35-9 Tributyltin Chloride Tributylthydroxystannane (6/02) 1461-22-9			
Tirpate (5/96) 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. 26419-73-8 oxime. Toluene Benzene, methyl- 108-88-3 Toluene-2,4-diamine 1,3-Benzenediamine, 4-methyl- 95-80-7 Toluene-2,6-diamine 1,3-Benzenediamine, 2-methyl- 823-40-5 Toluene-3,4-diamine 1,2-Benzenediamine, 2-methyl- 496-72-0 Toluene diisocyanate Benzene, 1,3-diisocyanatomethyl- 26471-62-5 o-Toluidine Benzenamine, 2-methyl- 95-53-4 o-Toluidine hydrochloride Benzenamine, 2-methyl- 636-21-5 p-Toluidine Benzenamine, 2-methyl- 95-53-4 o-Toluidine Benzenamine, 2-methyl- 90-10-64-9 Tributylline Tributylline 106-49-0 Tributyllin Tributylline 106-49-0			
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Trichloroethylene Ethene, trichloro- 79-01-6			

Appendix Al Other Designated was			
Appendix VIII Hazardou	s Constituents		
Common name	Chemical abstracts name (9/98)	CAS#	
Trichloromonofluoromethane	Methane, trichlorofluoro-	75-69-4	
2,4,5-Trichlorophenol	Phenol, 2,4,5-trichloro-	95-95-4	
2,4,6-Trichlorophenol	Phenol, 2,4,6-trichloro-	88-06-2	
2,4,5-T	Acetic acid, (2,4,5-trichlorophenoxy)-	93-76-5	
Trichloropropane, N.O.S. ¹		25735-29-9	
1,2,3-Trichloropropane	Propane, 1,2,3-trichloro-	96-18-4	
Triethylamine (5/96)	Ethanamine, N,N-diethyl-	121-44-8	
O,O,O-Triethyl	Phosphorothioic acid, O,O,O-triethyl ester	126-68-1	
phosphorothioate			
1,3,5-Trinitrobenzene	Benzene, 1,3,5-trinitro-	99-35-4	
Tris(1-aziridinyl)phosphine	Aziridine, 1,1',1"-phosphinothioylidynetris-	52-24-4	
sulfide			
Tris(2,3-dibromopropyl)	1-Propanol, 2,3-dibromo-, phosphate (3:1)	126-72-7	
phosphate			
Trypan blue	2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-	72-57-1	
	4,4'diyl)bis(azo)]- bis[5-amino-4-hydroxy-, tetrasodium salt		
Uracil mustard	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	66-75-1	
Vanadium pentoxide	Vanadium oxide V ₂ O ₅	1314-62-1	
Vernolate (5/96)	Carbamothioc acid, dipropyl-, S-propyl ester	1929-77-7	
Vinyl chloride	Ethene, chloro-	75-01-4	
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy -3-(3-oxo-1-phenylbutyl)-, when present at	81-81-2	
	concentrations less than 0.3%		
Warfarin	2H-1-Benzopyran-2-one, 4-hydroxy -3-(3-oxo-1-phenylbutyl)-, when present at	81-81-2	
	concentrations greater than 0.3%		
Warfarin salts, when present at			
concentrations less than 0.3%			
Warfarin salts, when present at			
concentrations greater than 0.3%			
Zinc cyanide	Zinc cyanide Zn(CN) ₂	557-21-1	
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10%	1314-84-7	
Zinc phosphide	Zinc phosphide Zn ₃ P ₂ , when present at concentrations of 10% or less	1314-84-7	
Ziram	Zinc, bis(dimethylcarbamodithioato-S,S')-, (T-4)-	137-30-4	

¹The abbreviation N.O.S. (not otherwise specified) signifies those members of the general class not specifically listed by name in this appendix.

Appendix IX Wastes Excluded under 260.20 & 260.22

Note: Refer to 40 CFR 260 Appendix IX, June 30, 2003 and federal amendments http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-I.htm

Appendix X [Reserved 12/93]

Appendix XI Other Designated Waste

Hazardous Waste #	Substance (6/89, 6/95)
Tiazaidous vv aste π	Substance (0/69, 0/93)
5555	Any solid waste the Department determines constitutes a hazard and requires greater
	control
7777	Non-hazardous waste received by a hazardous waste facility